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THE REGISTRAR GENERAL'S

STATISTICAL REVIEW

OF

ENGLAND AND WALES

FOR THE YEAR 1959

PART III
COMMENTARY

LONDON
HER MAJESTY'S STATIONERY OFFICE
1961

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EXPLANATORY NOTES

1. Populations

The estimates of population appearing in this volume and described as "home" or "total populations, have the following content:

Home population—the population, of all types, actually in England and Wales, distributed by area according to residence.

Total population—the home population plus members of H.M. Forces belonging to England and Wales and serving overseas but minus the Forces of other countries temporarily in England and Wales.

2. Numbering of tables

Of the tables referred to in this review, those numbered in Arabic numerals will be found in "Part I, Tables, Medical" and those lettered will be found in "Part II, Tables, Population" for the year in question, while those numbered in Roman numerals appear in this volume.

3. Standardised mortality comparison

The Comparative Mortality Index introduced in 1942 has since 1958 been replaced by a Standardised Mortality Ratio which shows the number of deaths registered in the year of experience as a percentage of those which would have been expected in that year had the sex/age mortality of a standard period (1950-1952) operated on the sex/age population of the year of experience.

These Standardised Mortality Ratios are shown in Tables XLIV, XLIX, LXXXIII, LXXXIV, LXXXIX, XCIII, XCVII and CIII of the present volume.

4. Indication of reliability

Rates given as 0 indicate that the actual rate is less than one half of a unit. A dash (—) in any column indicates that there were no events.

Rates based upon less than 20 events are distinguished by italic type as a warning to the user that the smallness of the experiences may affect their reliability as a measure of the underlying mortality.

Numbers

If d represents the deaths in an area and p the population in that area then, if d/p is small, the standard error (s.e.) of d is approximately \sqrt{a} assuming that the deaths are independent of one another. Clearly, the larger the number of deaths the smaller will be the proportionate variability. A deviation either way of twice the s.e. may be expected about once in 20 times. Using this criterion one might expect towns each averaging 20 deaths per year to yield in the same year numbers ranging between 11 and 29 without such differences having any statistical significance. Alternatively it could be said that if 20 deaths were recorded for a town, this number would have a 95 per cent confidence interval of approximately \pm 9, there being a 95 per cent chance that the underlying mortality is represented by a number of deaths within this interval.

If d is thought to be an extreme variation it would be more reliable to use as the standard error not \sqrt{d} but $\sqrt{d'}$ where d' is the number of deaths expected if some standard rate (e.g. the national rate) were applied.

Rates

The appropriate standard error of a death rate when d represents the number of deaths and p the population is

$$\frac{\sqrt{d}}{p}$$
 or $\frac{m}{\sqrt{d}}$

where m is the death rate. The difference between two local death rates m_1 and m_2 can only be regarded as significant if it amounts to more than twice the standard error of the difference, viz.

$$2\sqrt{\frac{m_1^2}{d_1} + \frac{m_2^2}{d_2}}$$

Comparison of adjusted rates

Before comparisons are made, other known sources of variation (such as differences in the sex and age composition of the population) must be removed. If C is the local death Area Comparability Factor, then mC is to be compared with m', the national death rate. The s.e. of mC is

$$\sqrt{\frac{mC}{p}}$$

and

$$mC \pm 2\sqrt{\frac{mC}{p}}$$

is to be compared with m'. As already indicated, m' can be used instead of m in the calculation of the s.e.; m' has the advantage of itself having a small sampling error.

5. Definition of areas

London A.C. = administrative county of London which consists of the City of London (including the Inner and Middle Temples) and the metropolitan boroughs.

C.B. = county borough; M.B. = municipal borough; Met.B. = metropolitan borough; U.D. = urban district; R.D. = rural district.

6. Standard regions

The constitution of the standard regions of England and Wales used in this volume is as follows:

REGION I Northern Cumberland Durham Northumberland Westmorland Yorkshire, North Riding REGION II East and West Ridings Yorkshire, East Riding Yorkshire, West Riding Yorkshire, West Riding Yorkshire, Part of REGION III North Midland Derbyshire, Part of Leicestershire Lincolnshire— Parts of Holland Parts of Kesteven Parts of Lindsey Northamptonshire Nottinghamshire Nottinghamshire Peterborough, Soke of RUINI REGION IV Eastern Bedfordshire Cambridgeshire Ely, Isle of Essex, Part of ² Hentfordshire, Part of Kent London and South Eastern REGION IV Eastern REGION IV Eastern Bedfordshire Lingdonshire Norfolk Suffolk, East Suffolk, West Vandon and South Eastern REGION IV Eastern Hentfordshire, Part of Huntingdonshire Norfolk Suffolk, East Suffolk, West Vandon and South Eastern REGION IV Eastern Hentfordshire, Part of Huntingdonshire Norfolk Suffolk, East Suffolk, West Vandon and South Eastern REGION IV Eastern	REGION VII South Western Cornwall Devon *Dorset, Part of7 Gloucestershire Somerset Wiltshire	Wales II (remainder) Anglesey Caernarvonshire Cardiganshire Denbighshire Flintshire Merionethshire Montgomeryshire Pembrokeshire Radnorshire Radnorshire REGION IX Midland Herefordshire Shaffordshire Staffordshire Warwickshire Worcestershire REGION X North Western Cheshire Derbyshire, Part of8 Lancashire
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- 1. All except Buxton M.B., Glossop M.B., New Mills U.D., Whaley Bridge U.D. and Chapel en le Frith R.D.
 2. All except East Ham C.B., West Ham C.B., Chingford M.B., Wanstead and Woodford M.B., Leyton M.B., Walthamstow M.B., Ilford M.B., Barking M.B., Dagenham M.B., Waltham Holy Cross U.D. and Chigwell U.D.
 - 3. All except Barnet U.D., Bushey U.D., Cheshunt U.D., East Barnet U.D. and Elstree R.D.
 - 4. All areas stated in 2 above.
 - 5. All areas stated in 3 above.
 - 6. Poole M.B. only,
 - 7. All areas except Poole M.B.
 - 8. All areas stated in 1 above.
 - *On 1st April, 1959, the administrative county of Southampton was renamed Hampshire.

The constitution of the standard regions has been changed by the transfer of Dorset (except Poole M.B.) from the Southern Region to the South Western Region.

7. Conurbations

The conurbation areas used in this volume are those which were agreed in 1950, under the aegis of the Interdepartmental Committee on Social and Economic Research and the Central Statistical Office, for the presentation of official statistics generally.* They each consist of an aggregation of entire local authority areas and are constituted as follows:

Tyneside

Durham

Felling U.D. Hebburn U.D. Jarrow M.B. Whickham U.D.

Northumberland

Newcastle upon Tyne C.B.
Tynemouth C.B. Gosforth U.D.

Longbenton U.D. Newburn U.D. Wallsend M.B. Whitley Bay M.B.

West Yorkshire

Yorkshire, West Riding

Bradford C.B Dewsbury C.B. Halifax C.B. Huddersfield C.B. Leeds C.B. Wakefield C.B.

Gateshead C.B. South Shields C.B.

> Aireborough U.D. Baildon U.D. Batley M.B. Bingley U.D. Brighouse M.B.

> Colne Valley U.D. Denby Dale U.D. Denholme U.D. Elland U.D.

Heckmondwike U.D. Holmfirth U.D. Horbury U.D. Horsforth U.D. Keighley M.B.

Kirkburton U.D. Meltham U.D. Mirfield U.D. Morley M.B.

Ossett M.B. Pudsey M.B.
Queensbury and Shelf
U.D. Ripponden U.D.

Rothwell U.D. Shipley U.D. Sowerby Bridge U.D. Spenborough M.B.

Stanley U.D.

Urmston U.D. Wardle U.D.

Westhoughton U.D. Whitefield U.D. Whitworth U.D. Worsley U.D.

South East Lancashire

Cheshire

Stockport C.B.

Alderley Edge U.D. Altrincham M.B. Bowdon U.D. Bredbury and Romiley

U.D.
Cheadle and Gatley U.D.
Dukinfield M.B.
Haie U.D.
Hazel Grove and Bramhall

U.D.
Hyde M.B.
Marple U.D.
Sale M.B.
Stalybridge M.B.
Wilmslow U.D.

Disley R.D.

Bolton C.B. Bury C.B. Manchester C.B. Oldham C.B. Rochdale C.B. Salford C.B.

Ashton-under-Lyne M.B. Audenshaw U.D. Chadderton U.D. Crompton U.D. Denton U.D.

Droylsden U.D. Eccles M.B. Failswortn U.D. Farnworth M.B. Heywood M.B. Lancashire

Horwich U.D. Irlam U.D. Kearsley U.D. Lees U.D. Littleborough U.D.

Little Lever U.D. Middleton M.B. Milnrow U.D. Mossley M.B. Prestwich M.B.

Tottington U.D.

Radcliffe M.B. Royton U.D. Stretford M.B. Swinton and Pendlebury

Merseyside

Cheshire

Ellesmere Port M.B. Hoylake U.D. Neston U.D. Wirral U.D. Birkenhead C.B. Wallasey C.B. Bebington M.B.

Bootle C.B Liverpool C.B.

Lancashire

Huyton-with-Roby U.D. Litherland U.D.

Crosby M.B.

West Midlands

Staffordshire

Smethwick C.B. Walsall C.B.
West Bromwich C.B.
Wolverhampton C.B.

Aldridge U.D Amblecote U.D.
Bilston M.B.
Brierley Hill U.D.
Coseley U.D.

Darlaston U.D. Rowley Regis M.B. Sedgley U.D. Tettenhall U.D. Tipton M.B.

Wednesbury M.B. Wednesfield U.D. Willenhall U.D.

Warwickshire Birmingham C.B

Solihull M.B. Sutton Coldfield M.B.

Worcestershire Dudley C.B.

Halesowen M.B. Oldbury M.B. Stourbridge M.B.

^{*}See Census 1951, England and Wales, Preliminary Report, page xxii, H.M.S.O., price 5s. 0d. net; also Census 1951, England and Wales, Report on Greater London and Five Other Conurbations, page xv, H.M.S.O., price 5s. 0d. net.

Greater London

London
(whole county)

Middlesex
(whole county)

Surrey

Croydon C.B.

Banstead U.D.
Barnes M.B.
Beddington and Wallington M.B.
Carshalton U.D.

Coulsdon and Purley U.D. Epsom and Ewell M.B. Esher U.D.

Kingston-upon-Thames M.B. Malden and Coombe M.B.

Merton and Morden U.D. Mitcham M.B.

Richmond M.B.

Richmond M.B. Surbiton M.B. Sutton and Cheam M.B. Wimbledon M.B. Kent
Beckenham M.B.
Bexley M.B.
Bromley M.B.
Chislehurst and Sidcup
U.D.
Crayford U.D.
Erith M.B.
Orpington U.D.
Penge U.D.

Hertfordshire
Barnet U.D.
Bushey U.D.
Cheshunt U.D.
East Barnet U.D.

Elstree R.D.

Essex
East Ham C.B.
West Ham C.B.

Barking M.B. Chigwell U.D. Chingford M.B. Dagenham M.B. Ilford M.B.

Leyton M.B.
Waltham Holy Cross
U.D.
Walthamstow M.B.
Wanstead and
Woodford M.B.

8. Urban and rural aggregates

Urban and rural aggregates relate to groups of local authority areas by type (all those within conurbations, urban areas, rural districts) and, in the case of urban areas, by size of enumerated population at the 1951 Census. "Urban areas" include boroughs and urban districts as defined under the Local Government Acts, and rural districts are also as defined by those Acts.

9. Assignment of vital statistics by area

In all tables births and stillbirths are classified according to the area of usual residence of the parents (or mother) and deaths to the area of usual residence of the deceased. Accommodation provided under Parts III and IV of the National Assistance Act, 1948, is regarded as the place of residence of persons dying there. Before 1st January 1958 chronic sick and psychiatric hospitals were similarly treated for this purpose but from that date the method of classification was modified, the main change being that a death in such a hospital is now assigned to the area of occurrence only if the deceased had been there six months or more. If the deceased had been there less than six months the death is transferred to the area of previous usual residence.

10. General

See also the Explanatory Notes to the Tables volumes, Parts I and II.

CORRIGENDA

Statistical Review 1958, Part III, Commentary

Page 187 Table CV

"N.H.S. hospital" line should read 444,749; 12,842; 457,591; 60.5; (60.6); 28.1; (28.8)

"Other" line should read 17,443; 261; 17,704; 2.3; (2.3); 14.7; (15.0)

Page 188 Table CVI

For columns headed "N.H.S. hospital" and "Other" substitute the following:

	Parity of mother								
Age- group	0		1–3		4 and	lover	Total		
	N.H.S. hospital	Other	N.H.S. hospital	Other	N.H.S. hospital	Other	N.H.S. hospital	Other	
All ages	241,133	8,717	178,617	8,376	24,999	350	444,749	17,443	
Under 25	134,237	6,400	41,977	3,600	544	22	176,758	10,022	
25	93,016	2,148	106,302	4,356	11,923	217	211,241	6,721	
35 and over	13,392	138	30,091	405	12,485	111	55,968	654	
Not stated	488	31	247	15	47		782	46	

Page 189 Table CVII

Parity O, "N.H.S. hospital" col. should read 6,431; 3,070; 2,688; 613; 60; and "Other" col. should read 169; 83; 54; 4; 28 Parity 4 and over, "N.H.S. hospital" col. should read 1,261; 16; 515; 717; 13; and "Other" col. should read 12; —; 7; 5; — Parity Total, "N.H.S. hospital" col. should read 12,842; 3,920; 6,220; 2,619; 83; and "Other" col. should read 261; 111; 106; 16; 28

Page 191 Table CIX

All ages, Parity 4 and over, "Other" col. for 35 read 33 Under 25, Parity 1-3, "N.H.S. hospital" col. for 20 read 19 25—, Parity 4 and over, "Other" col. for 35 read 31 35 and over, Parity 0, "Other" col. for 34 read 28; Parity 1-3,

35 and over, Parity 0, "Other" col. for 34 read 28; Parity 1-3, "Other" col. for 16 read 17; Parity 4 and over, "Other" col. for 42 read 43

Page 192 Table CX

ENGLAND AND WALES, Parity 4 and over, "Other" col. for 35 read 33

Midland, Parity 0, "Other" col. for 17 read 18
Parity 1-3 "N.H.S. hospital" col. for 33 read 32
"Other" col. for 9 read 10
Parity 4 and over, "Other" col. for 60 read 49



INTRODUCTION

This Commentary, the third part of the Registrar General's Statistical Review for 1959, continues a change in the treatment of the subject of mortality. In place of the frequently repetitive survey of an extensive range of causes of death there will be, as on this occasion, a brief review of the salient features of general mortality followed by notes on one or two subjects selected either because they are topical or because they are of general interest. Mortality according to marital status is one of the matters chosen for special notice in this Review; the other is a current assessment of deaths from congenital malformations. Comparisons of changes and trends in the wider range of causes can still be made from the usual serial tables.

For the rest, the Commentary follows a familiar pattern. Population, marriages, divorces, widowhood and births are analysed before the mortality chapters, which are followed by comment on a miscellany of medical statistics, a report on the work of the Advisory Committee on Medical Nomenclature and Statistics and a summary of the vital statistics of Great Britain and Ireland. A review of international co-operation in population and health statistics in 1959 precedes the customary note on information derived from the Registration Service, including particulars of the number of searches made by the public in the indexes of registered marriages, births and deaths at Somerset House and of the number of certificates issued. The Commentary concludes with statistics of work on the National Health Service Central Register and an analysis of electors on the parliamentary and local government registers.

General Register Office, Somerset House, London, W.C.2.

October 1961.

POPULATION

It is estimated that at mid-1959 the *home* population of England and Wales was 45,386,000, the *civilian* population 45,007,000 and the *total* population 45,504,000.

As defined in Explanatory Note 1 on page xii, the home estimate comprises all persons actually present in the country, civilian and military, and of whatever nationality. It is an estimate constructed from the last Census with allowance for births, deaths, migration into and out of the country and variation in the disposition of the Armed Forces, since the Census was taken. No adjustment is made, however, for the purely temporary seasonal net increase in visitors to this country in the summer months. For internal purposes the home population is the most important of the three estimates given. It serves as the control figure for the local population estimates on which Exchequer grants to local authorities are based and as a basis for the calculation of birth and death rates and other vital statistics. The term civilian population is self-explanatory—it is the home figure excluding its Armed Forces content.

Explanatory Note 1 defines our *total* population figure as the home population plus members of H.M. Forces serving overseas who are drawn from England and Wales, but *minus* the Forces of other countries temporarily stationed here.

It is easy enough to define the population of a country as the total number of its inhabitants; but there is no single definition of an inhabitant universally acceptable for all statistical purposes. There is a convention that either a de facto (or actual) figure or a de jure (by right) figure may be given, or both. But apart from the difficulty in making a choice between them which has faced those countries inexperienced in conducting a census, and in spite of special circumstances which may complicate even a true de facto count (such as the presence of jungle tribes, aborigines, nomadic groups, pockets of officially unrecognised displaced persons, etc. in a country), the United Nations Population Commission has found so confused and complicated a picture of actual theory and practice that, in the interest of comparability between the statistics of different nations, it recommended the production from each national census around 1950 of total figures on a uniform modified de facto basis, whatever other figures were also produced. This recommendation of an "international conventional total" population figure has been repeated for the 1960 round of censuses.

The 1959 United Nations Demographic Yearbook defines the "international conventional total" as "the total number of persons present in the country at the time of the census, excluding foreign military, naval and diplomatic personnel and their families located in the country but including military, naval and diplomatic personnel of the country and their families located abroad and merchant seamen resident in the country but at sea at the time".

The home population of England and Wales is the simple de facto population count. The total population of England and Wales is a by-product of national requirements; and its development, though not its publication in its present

form, long antedates the United Nations discussions and recommendations? In fact, however, it sufficiently approximates to the recommended "international conventional total" to be identifiable with it for the purposes of international comparability.

The inclusion of merchant seamen at sea is recommended by the U.N. Population Commission, but is not mentioned in Explanatory Note 1. They are excluded from all three of the published estimates for England and Wales. Similarly, the categories referred to above as recommended for exclusion, but which are not mentioned in Explanatory Note 1, are included by us. On the basis of past experience, however, it is possible to assume that these contrasting groups are in rough balance.

Table I. Estimated population mid-1951 to mid-1959, England and Wales (Figures in thousands)

	Total				Home		Civilian		
	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females
1951	44,007	21,233	22,774	43,815	21,044	22,771	43,284	20,530	22,754
1952	44,166	21,320	22,846	43,955	21,110	22,845	43,402	20,576	22,826
1953	44,301	21,397	22,904	44,109	21,206	22,903	43,541	20,658	22,883
1954	44,480	21,492	22,988	44,274	21,288	22,986	43,742	20,774	22,968
1955	44,623	21,569	23,054	44,441	21,389	23,052	43,916	20,879	23,037
1956	44,821	21,669	23,152	44,667	21,517	23,150	44,151	21,013	23,138 ³
1957	45,043	21,782	23,261	44,907	21,648	23,259	44,425	21,177	23,248 ³
1958	45,244	21,877	23,367	45,109	21,744	23,365	44,701	21,346	23,355 ³
1959	45,504	22,002	23,502	45,386	21,885	23,501	45,007	21,517	23,490

From Table I above it will be seen that at no time during the period covered would the use of the total population involve the addition of as much as half of one per cent to the home population, while recently the addition required represents only about a quarter of one per cent of the home population.

On the basis of the *de facto* or home population, the number of persons in England and Wales increased between 1951 and 1959 by 1,571,000 or nearly 3.6 per cent.

The annual increases average 196,000 ranging from 140,000 to 277,000. If we compare this eight-year period with that from mid-1931 to mid-1939, we find many similarities. With a smaller starting figure, there was then an increase of about 1,500,000 (slightly under 3·7 per cent) in the population of England and Wales. The annual increases averaged 184,000, ranging from 117,000 to 245,000. In the period from mid-1921 to mid-1929, the overall increase had been nearly 1,700,000 (or 4·4 per cent), with annual increases averaging 208,000 and ranging from 117,000 to 346,000. In general, apart from the expected short term fluctuations, there was in the nineteen fifties no significant departure from the pattern of population change persisting since about 1911.

During the Victorian and Edwardian periods, the population of England and Wales increased by more than 20 million people, having doubled itself in a little more than half a century. From some 15 millions in 1837, it rose to over 32 millions by the end of the nineteenth century and was nearly 36 millions

by 1910. This represented an average annual increase of some 288,000 spread over the 73 years; but over the last forty of them the annual increments had persisted at about 300,000 and from the eighteen nineties an annual rate of around 350,000 was maintained. Since the 1911 Census the population has tisen from 36 millions to an estimated 45.4 millions at mid-1959. Looking back, we can fairly describe the last fifty years as the period when a previously accelerating rate of population increase, which had been adding 350,000 and more persons a year to the population of England and Wales, was quite rapidly and dramatically replaced by annual increases for the most part well below 200,000.

The most important element in the annual population increment is the number of births occurring in the year, and the change in the pace of population growth reflected a change in the flow of births. The yearly averages have been (in thousands):

1841—50 1851—60 1861—70 1871—80 1881—90 1891—1900	549 647 750 859 889 916	1901—10 1911—20 1921—30 1931—40 1941—50	930 810 713 606 725
--	--	---	---------------------------------

In fact the decline in births began soon after the end of the nineteenth century and rapidly gathered momentum. It was not arrested until the nineteen thirties. In 1933 there were as few as 580,000 live births. A slow rise brought the annual figure up to 621,000 in 1938. After the 1939-45 War there was (as there had been after the 1914-18 War) a sharp upward fluctuation in births, mainly due to "postponed births". After 1950 the flow seemed to have settled down to some 670,000 or so births a year. But in 1955 the flow was accelerated—700,000 in 1956, 723,000 in 1957, 741,000 in 1958, 749,000 in 1959. As a result the population increments since mid-1955 have been larger also—226,000 in 1955-56, 240,000 in 1956-57, 202,000 in 1957-58 and 277,000 in 1958-59.

Table II. Natural increase of the population mid-1951 to mid-1959, England and Wales

Year ended 30th June		Births			Deaths		Natural increase			
	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	
1952	669,195	343,708	325,487	484,136	250,310	233,826	185,059	93,398	91,661	
1953	679,757	349,569	330,188	521,161	269,141	252,020	158,596	80,428	78,168	
1954	680,794	349,788	331,006	487,860	252,565	235,295	192,934	97,223	95,711	
1955	665,190	342,175	323,015	524,446	269,795	254,651	140,744	72,380	68,364	
1956	687,214	354,082	333,132	516,340	266,001	250,339	170,874	88,081	82,793	
1957	709,658	364,569	345,089	483,659	248,948	234,711	225,999	115,621	110,378	
1958	732,751	377,142	355,609	549,955	284,054	265,901	182,796	93,088	89,708	
1959	749,059	385,391	363,668	536,131	274,680	261,451	212,928	110,711	102,217	

The Table II above sets out the figures making up the natural increase (excess of births over deaths) from mid-1951 to mid-1959. The "bulge" years of 1946 and 1947 (there were 821,000 and 881,000 births respectively in these two calendar years) were followed by a steady decline to a figure still higher than that persisting in the nineteen thirties. As already indicated births have increased in number since 1955 and in mid-year to mid-year terms reached 733,000 in 1957-58 and 749,000 in 1958-59.

The lowest year for births in the series in Table II was the year of least natural increase; but the year of greatest natural increase was not 1958-59 (the highest for births), but 1956-57. Deaths fluctuate from year to year independently of the movement in births, reflecting the irregular incidence of epidemics of influenza and similar events. In the eight years shown in Table II the annual deaths fluctuated between 484 and 550 thousand. In the period since mid-1951 the annual natural increase has only twice exceeded 200,000—the average during the 1951-59 being 184,000 (i.e. an average of 697,000 births offset by 513,000 deaths).

The other factors in population change are conveniently summarised into a simple net figure of migration; but what is here being measured is the balance between two opposing movements of a complex character. Table III below gives not only the final balance but also two separate constituents. necessary to explain the meaning of "migration" in this context. For the sake of greater comparability, international conventional use distinguishes between the long term or "permanent" migrant (a person whose movement to or from a country is expected to persist for at least one year) and the "short term migrant" or temporary visitor. For the estimation of population growth it is necessary to measure all long term and some short term migration. A de facto Census count will include visitors to a country and exclude residents who are away from it at the time. The next Census will reflect not only the natural change and long term migration to and from the country in the intervening period; but it will also cover any change in the difference between the number of temporary visitors to this country and the number of residents of England and Wales who are temporarily abroad. Intervening estimates attempt a similar assessment of such changes. To estimate the relatively small change in the "visitor" pool from the enormous passenger movement across the boundaries of England and Wales is a matter of some difficulty.

Table III. Migration, mid-1951 to mid-1959, to and from England and Wales
(Figures in thousands)

Year ended 30th June		let overs migratio			et migra within ted Kin		Total net migration			
	Persons	Males	Females	Persons	Males	Females	Persons	Males	Females	
1952 1953 1954 1955 1956 1957 1958 1959	- 45* - 42 - 30 - 15 - 20 - 5 + 30	- 17 - 15 - 11 - 6 - 2 - 13 - 11 + 4	- 28 - 27 - 19 - 9 + 2 - 7 + 6 + 26	+ 19 + 18 + 13 + 20 + 25 + 20 + 19 + 18	+ 11 + 11 + 8 + 12 + 13 + 12 + 11 + 11	+ 8 + 7 + 5 + 8 + 12 + 8 + 8 + 7	- 26 - 24 - 17 + 5 + 25 - 14 + 48	- 6 - 4 - 3 + 6 + 11 - 1 - 1	- 20 - 20 - 14 - 1 + 14 + 1 + 14 + 33	

^{*}Including Allied Forces discharged between mid-1951 and mid-1952.

Table III distinguishes between net migration between England and Wales and the rest of the United Kingdom and net movement between this country and countries outside the United Kingdom. The first is an acknowledgement that in many respects the United Kingdom is a single entity and that this

element in the migration balance is a movement much more akin to that between one region of the country and another than, say, emigration from Italy to Wales or from London to Brazil. The two elements in the table constitute a two-way traffic of variable size but resulting since 1955 in a small net annual increase to the population of England and Wales.

One established element in the migration balance is the net annual increase from the Irish Republic. The growth of industrial development in the Republic might have been expected to curtail the availability of Irish immigrant workers; but in fact the inward flow of workers has increased in recent years. There is, however, much movement to and fro and some difficulty in assessing the resultant net annual addition to the population of this country. It probably amounts to over 20,000. There is also a net inflow of about 20,000 from Scotland and Northern Ireland.

The total migration balance apart from that from Scotland or Ireland is the difference between two complex groupings. One includes English and Welsh emigrants beyond the United Kingdom and the Irish Republic, any former Commonwealth or alien immigrants here who return home or move on to another country, and the change in the level of residents in this country temporarily away from it. The other and contrasted grouping includes Commonwealth and alien immigrants to this country, former emigrants returning to England and Wales and the change in the level of overseas visitors here (including, for example, U.S. Forces stationed here and their dependants).

Traditionally the first grouping has usually exceeded the second by more than net immigration here from the Irish Republic and net movement into England and Wales from the rest of the United Kingdom. Recent figures indicate that for the present the trend has been reversed; immigration from overseas has been in excess of emigration.

The warning about individual annual figures given in previous issues of this volume needs to be repeated. Net migration overseas (and this excludes Northern Ireland but includes the Irish Republic) is the difference between two large opposing totals of roughly the same order of size (something under 300,000). A relatively small change in either total can therefore produce a relatively large variation in the balance. These opposing totals are made up in part of firm figures, in part of estimates on incomplete data and in part of estimates largely relying on subjective judgement.

Table IV. Population changes mid-1951 to mid-1959, England and Wales (Figures in thousands)

Year ended 30th June	Population at beginning as corrected			Natural increase as estimated				igration estimated		Population at end as estimated and published			
	Persons	Males	fales Females Persons Male		Males	Females Person		Males	Females Persons		Males	Females	
1952 1953 1954 1955	44,007 44,166 44,301 44,477	21,233 21,320 21,397 21,491	22,774 22,846 22,904 22,986	185 159 196 141	93 81 98 72	92 78 98 69	- 26 - 24 - 17 + 5	- 6 - 4 - 3 + 6	- 20 - 20 - 14 - 1	44,166 44,301 44,480 44,623	21,320 21,397 21,492 21,569	22,846 22,904 22,988 23,054	
1956 1957 1958 1959	44,623 44,819 45,045 45,242	21,569 21,668 21,783 21,876	23,054 23,151 23,262 23,366	173 224 185 214	89 115 94 111	84 109 91 103	+ 25 + 14 + 48	+ 11 - 1 + 15	+ 14 + 1 + 14 + 33	44,821 45,043 45,244 45,504	21,669 21,782 21,877 22,002	23,152 23,261 23,367 23,502	

Table IV above brings together the figures for the two elements (natural increase and migration balance) in net population change since mid-1951.

Changes in population structure

The trend of changes in the sex, marital condition and age structure of the population was discussed at length in the 1956 Commentary (pages 6-8). The situation may be summarised here as follows.

Sex ratios

About 106 boys are born for every 100 girls; but the death rates for males are higher than those for females at all ages, so that the number of males per thousand females at mid-1959 falls from 1,054 at ages 0-4 to a balance in the age-group 30-34, down to 777 at ages 60-64, and only 549 at ages 75 and over (twice as many women as men). The reduction in mortality at younger ages has narrowed the differential between the two sexes and postponed the age-group in which the excess of males at birth is countered by excess male mortality from 5-9 in 1911 to 30-34 in 1959. At older ages the death rates for males have fallen much less than those for females, and consequently the excess of females at these ages has been increasing. At the 1911 Census there were 757 men for every 1,000 women at ages 65 and over; in 1959 the figure was 632.

Age structure

We have already emphasised the remarkable reduction in the number of births which distinguishes the last half-century from the Victorian and Edwardian eras. One result has been a change in the proportion of young to old in the population. At the 1911 Census children under 15 constituted 30.6 per cent of the entire population, while only 5.2 per cent were over 65. The population aged 15-64 amounted therefore to 64.2 per cent of the whole. At mid-1959 the under-fifteens had fallen to 22.8; but those who had passed their 65th birthday made up 11.8 per cent, the group 15-64 being 65.3 per cent of the whole.

There are many and complex consequences of the increase in the number of older people in the community. Many of these arouse widespread interest, An impressive illustration of the effects of fluctuations in the number of births has been provided by the passage of the post-war births "bulge" (which reached its peak with the 881,000 live births in 1947) through the primary and then the secondary education system and its more recent entry into the labour market. The high birth rate in the later years of the nineteenth and earliest of the twentieth centuries represents another "bulge" (spread over a longer period and therefore over a wider age span) which has passed up into older age-groups and has increased the proportion of elderly persons in the population, in spite of having borne the brunt of the loss of life in the 1914-18 War, The resultant effect on the dependency of one sector of the population on another is sometimes illustrated by mere comparison of the "working" and "retired" age-groups (15-64 and 65 and over) or the "National Health Insurance population" (men 15-64; women 15-59) and those beyond these ages. While accepting with necessary qualifications the validity of comparisons between the insured sector (or, if preferred, the 15-64 sector) with the rest of the total de facto or home population, a shorter term view of the changing picture may overlook one important point which emerges from available figures. The ratio, present and forecast, of the total number of children and old people together (0-15 and 65 and over) to the population as a whole since the 1931 Census

has certainly increased. But comparison with the 1911 Census situation shows that this increase—especially that of the elderly component—is a "growing up" process after the population had been rendered unduly youthful by the very large numbers of births in the late Victorian and immediately subsequent years. The increase therefore represents a stage in the restoration of a more normal age structure.

In 1911 children and old people together amounted to nearly 36 per cent of the entire population (30·6 per cent 0-14; 5·2 per cent 65 and over). In 1931 they were 31 per cent (23·8 per cent 0-14; 7·4 per cent 65 and over). By mid-1959 the proportion had risen to nearly 35 per cent (22·8 per cent 0-14; 11·8 per cent 65 and over). It is estimated that while the proportion will reach 36·6 per cent in 1974 and 37·2 per cent in 1979, it will thereafter revert to about 36 per cent (22·0 per cent 0-14; 14·2 per cent 65 and over) by the end of the twentieth century. Measured in these terms, the economic pressure of dependency has not varied very much and is not greater now than in 1911. But, as part of the "growing up" referred to above, the elderly component has increased to more normal proportions.

Marital condition

Table V. Proportion married per 1,000 in each age-group, 1931, 1951 and 1959, England and Wales

		Males		Females					
Age	1931	1951	1959	1931	1951	1959			
	(census)	(census)	(estimate)	(census)	(census)	(estimate)			
15-24	70	125	162	140	272	311			
25-34	640	720	752	658	798	863			
35-44	855	862	871	752	820	866			
45-54	847	877	884	720	759	796			
55-64	795	850	862	619	624	657			
65 and over	619	664	692	341	352	340			

From Table V above, it will be seen that as a result of the maintenance of relatively high marriage rates generally, and in particular of an increase in the number of marriages at young ages, the married proportion to the rest has increased in all age-groups except for the oldest group of females. In the drop after the early fifties the high incidence of the termination of marriages by death is obviously the significant factor. In the youngest age-group of all the proportion married has more than doubled for both men and women since 1931.

Future prospects

The difficulty of determining whether fluctuations are fortuitous, or indicative of a short term variation in the established pattern which will peter out with little long term effect on it, or the beginning of a new trend that will henceforward be steadily maintained, or of one that will accelerate slowly or rapidly, does not lessen the need at any one time for the best forecasting possible within the limits of available data. There is a wide field of government, industrial

and commercial activity where decisions must take account of long term population trends. The assumptions about future fertility, mortality and migration underlying the proportions of Table A5 in Part II of the 1959 Statistical Review are under continuous review and revisions are made as often as any change in current conditions appear to warrant them. They have, for example, been revised since the publication of the 1958 Review and may shortly again be revised.

On the stated assumptions underlying the projections from mid-1959, the population will have increased from 45,504,000 to 49,230,000 by mid-1979 and to over 52,000,000 by the end of the twentieth century. The population under 15 will have fallen slightly in relation to total population by 1979 (from 22.8 to 22.3 per cent) and to 22 per cent by 1999. Those aged 65 and over —11.8 per cent in 1959—will constitute 14.9 per cent of the mid-1979 population with a small reduction to 14.2 per cent in 1999.

Men in the working age-group 15-64 (14,603,000 in 1959) will have increased in number to 15,503,000 by mid-1979 and to 16,963,000 by mid-1999. Nevertheless they will constitute only 31.5 per cent of the 1979 population, compared with 32.1 per cent in 1959. In 1999 this proportion will be 32.4 per cent.

MARRIAGES

During 1959 there were 340,126 marriages in England and Wales. This number was just over 200 more than in 1958 and about 7,000 less than in 1957. The marriage rates per 1,000 total population and per 1,000 unmarried population aged 15 and over fell slightly between 1958 and 1959. The marriage rate per 1,000 unmarried females aged 15-39, an age-group which accounts for about 90 per cent of all marriages, also fell slightly compared with 1958 although the corresponding rate for unmarried males aged 20-44 is rather higher for 1959 than for 1958, mainly due to the marked rise in both first marriage and remarriage rates in the 20-24 age-group.

Table VI. Numbers of marriages and marriage rates, 1931 and 1938 to 1959, England and Wales

	Marriages	Marriage rates									
Period		Per 1,000 total population	Per 1,000 unmarried population								
renou	Mainages		Males aged 15 and over	Females aged 15 and over	Males aged 20–44	Females aged 15–39					
1931 1938 1939–50* 1951–55* 1956 1957 1958 1959	311,847 361,768 381,910 350,916 352,944 346,903 339,913 340,126	15·6 17·6 17·9 15·8 15·7 15·4 15·0 14·9	53 · 4 61 · 2 68 · 2 68 · 3 70 · 7 70 · 1 68 · 8 68 · 5	41 · 6 47 · 8 53 · 0 51 · 4 52 · 9 52 · 4 51 · 3 51 · 2	106·4 124·5 139·7 126·0 157·0 157·8 157·2 158·9	68 · 6 85 · 5 106 · 2 121 · 4 131 · 7 132 · 3 130 · 3 129 · 3					

^{*}Annual averages.

Among the 340,126 marriages celebrated in 1959, 287,598 were between bachelors and spinsters, comprising about 85 per cent of the total. A further 10 per cent of the total number of marriages were those where one partner was marrying for the first time but the other was remarrying. In the remaining 5 per cent of marriages both partners were remarrying.

First marriages

Bachelors

Among the 340,126 men who married during 1959, 302,516 (89 per cent) were bachelors of whom 95 per cent married spinsters. Among the 14,918 bachelors who did not marry spinsters nearly twice as many married divorced women as married widows.

Table VII. First marriage rates by sex and age with ratios to those of 1938 taken as 100: 1931 and 1938 to 1959, England and Wales

The ratios were calculated before rounding off the rates

Marriage rates per	rates per population in each age-group				Ratios of rates to those of 193 as 100					38 taken		
population over 15	15- 20- 25- 30- 35-	45- 55 and over		15-	20-	25-	30	35-	45-	55 and over	All ages	
BACHELORS												
56·0 64·8	3·3 72·3 152·2 111·5 49· 3·2 87·0 176·8 127·5 57·			100	83 100	86 100	87 100	87 100	89 100	114 100	86 100	
71·2 70·8	6·4 112·1 175·6 128·3 61· 6·7 132·1 172·5 107·7 49·		1939–50 1951–55		129 152	99 98	101 84	107 86	113 99	107 107	113 117	
74·7 74·3 73·3 72·7	9·4 151·8 178·8 108·8 47· 10·6 154·6 174·8 109·4 46· 11·7 157·0 169·2 105·2 44· 11·5 159·9 167·8 104·9 44·	3 16·5 4·9 16·3 4·9	1957 1958	291 327 360 355	174 178 181 184	101 99 96 95	85 86 82 82	83 82 79 78	94 89 88 86	103 102 102 100	128 129 130 130	
		S	PINSTEI	RS								
51·7 61·4	17·1 106·8 119·1 57·2 21·22·6 147·9 154·0 67·2 25·		1931 1938	76 100	72 100	77 100	85 100	83 100	92 100	108 100	76 100	
69·5 72·0	36·8 191·1 153·3 72·8 28·9 43·9 232·3 156·5 75·3 29·3		1939–50 1951–55	163 195	129 157	100 102	108 112	112 115	119 122	100 103	123 143	
77·3 77·6 76·9 76·8	54·4 262·7 163·1 79·9 30·5 56·6 266·5 159·7 81·3 30·5 57·8 264·3 157·1 79·3 30·5 56·5 265·4 158·5 82·2 30·4	10·1 2·1 10·0 2·1	1956 1957 1958 1959	241 251 256 251	178 180 179 179	106 104 102 103	119 121 118 122	120 120 119 118	121 118 117 115	104 104 105 112	163 166 167 168	

^{*}Age-standardised.

Table VIII. Proportional distribution of first marriages in each age-group per 1,000 at all ages, and mean age at marriage, 1931 and 1938 to 1959, England and Wales

Period	15-	20-	25-	30-	35-	45-	55 and over	Age not stated	Mean age at marriage
				BACH	ELORS				
1931	19	371	410	122	55	14	6	3	27·30
1938	17	339	413	146	64	13	5		27·72
1939–50	29	421	333	122	71	15	5	4 2	27·06
1951–55	31	478	304	104	59	17	5		26·55
1956	43	502	286	93	53	17	5	1	26·15
1957	49	508	279	90	53	15	5	1	26·03
1958	56	520	268	84	51	15	5	1	25·86
1959	57	529	261	83	50	14	5	1	25·77
				SPINS	STERS				
1931	98	480	283	78	41	11	4	5	25 · 47
1938	112	460	278	86	45	11		4	25 · 58
1939–50	156	504	201	67	48	14	5	5	24·75
1951–55	186	537	161	54	38	16	6	2	24·18
1956	225	530	142	47	33	15	6	2	23 · 73
1957	237	529	134	45	33	14	6	2	23 · 60
1958	250	527	128	42	31	14	6	2	23 · 46
1959	252	534	121	41	30	13	7	2	23 · 37

The proportional age distribution of both bachelors and spinsters and their mean ages at marriage are shown in Table VIII for 1959 with similar figures for earlier years. The mean age of bachelor bridegrooms was 25.8 years which represents a slight fall from 1958 and continues the slow reduction in the mean age of bachelor bridegrooms which has been apparent in recent years. Reference to Table L of Part II shows that the mean age for bachelors who married spinsters was 25.2 years, which also continues the steady decline of recent years. The mean age at marriage for bachelors marrying widows (41.3 years) continues the long-term rise in this average which may well be associated with improved mortality experience, while the mean age at marriage for bachelors marrying divorced women, at 33.8 years, differs little from the 1958 figure.

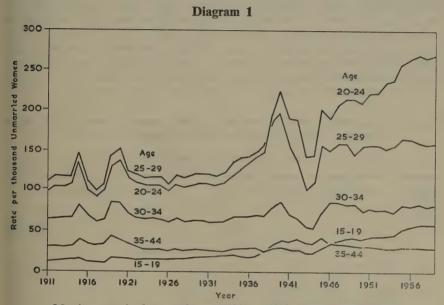
The reduction in the age at marriage shows more clearly in the proportional distribution by age of bachelor bridegrooms. Since the period before the Second World War the proportion of bachelor bridegrooms at ages 20-24 to all bachelor bridegrooms has risen from just over a third to over a half, while the proportion of bachelor bridegrooms aged 25-29 has fallen from just over 40 per cent to just over a quarter. The same accent on younger age at marriage is demonstrated by the age-group marriage rates shown in Table VII. This table shows that there has been a striking increase in the marriage rates of bachelors under the age of 25 and particularly under the age of 20, while the rates for ages 25 to 54 have tended to fall. The rates for 1959 are slightly below the corresponding rates for 1958 apart from the 20-24 age-group and the bachelor marriage rate for all ages over 15 combined fell compared with 1958. Nevertheless, the equivalent ratio roughly standardised for age (that is, the ratio of the actual rate for all ages over 15 shown in the first column of Table VII to the rate which would have resulted if the 1938 age rates had been in operation) was the same in 1959 as in 1958 owing to the greater weight given to young marriages in this ratio.

Spinsters

Spinster brides formed 90 per cent of all women who married in 1959; 94 per cent of them married bachelors, the remainder being divided between those marrying widowers and those marrying divorced men in a ratio of 4 to 6. Spinster brides were on average 23·4 years old at marriage, 2·4 years younger on average than bachelor bridegrooms. In those marriages where spinsters married bachelors the bride was, on average, 2·6 years younger than her husband; their average age was 22·6 years in 1959, continuing the decline in this figure in recent years. The mean age of spinsters marrying widowers at 43·0 is tending to rise in the same way as the corresponding rate for bachelors marrying widows, and the mean age for spinsters marrying divorced men at 30·5 years although a little higher than 1958 does not depart significantly from the steady mean age that this group has shown in recent years.

The overall reduction of the age at marriage since before the Second World War is even more marked for spinsters than for bachelors. A quarter of all spinster brides in 1959 were under 20 years of age compared with 10 per cent in 1931 and 11 per cent in 1938. This period has also seen a steady decline in the proportion of spinster brides aged 25-29 to match the rise in the under 20 proportion. In contrast to bachelors, Table VII and Diagram 1 show that since before the Second World War spinster marriage rates have risen at all

ages, although the rise has been proportionately much greater at the youngest ages. Compared with 1958, the 1959 rates have risen slightly between the ages of 20 and 35 and also over the age of 55, while the under 20 rate has fallen slightly as has the bachelor marriage rate for the same age-group. This fall has occurred despite the increase in the number of marriages at these ages between the two years and may be accounted for by the entry into this age-group of the first of the post-war peaks in births. The spinster marriage rate per 1,000 single women over the age of 15 fell a little compared with 1958 but the age-standardised ratio (already described) continued the slow rise which has been maintained since 1938.



Marriage rates* of women by age, 1911 to 1959, England and Wales

Minors

Among the marriages which took place during 1959 there were 37,401 in which the bridegroom was aged under 21 and 120,838 where the bride was a minor. These numbers correspond with 36,364 such bridegrooms and 119,585 such brides in 1958. Among the brides under 21 years of age 15,111 were aged 16 or 17 and a further 23,892 were 18 years old. Brides marrying under 21 outnumbered bridegrooms by just over 3 to 1, this ratio having fallen from nearly 5 to 1 in 1938 and over 4 to 1 in 1954.

The bridegroom was a minor in 11.0 per cent of all marriages in 1959 as compared with 10.7 per cent in 1958 and 6.9 per cent in 1954. More than one third (35.5 per cent) of all 1959 brides were minors. This is very similar to the proportion of brides who were under 21 in 1958 and shows a rise from 28.6 per cent in 1954. These increases illustrate in another way the general tendency to younger marriage.

^{*1911-37:} all marriages per 1,000 spinsters, widows and divorced women. 1938-59: first marriages per ,1000 spinsters

There were 30,252 marriages where both the bride and the bridegroom were under the age of 21, a figure which represents 8.9 per cent of all marriages and about a quarter of all the marriages where the bride was a minor.

Remarriages

During 1959 there were 37,610 men who remarried of whom 19,372 were widowers and 18,238 were divorced men; 33,885 women remarried, 16,171 being widows and 17,714 divorced women. Combined remarriage rates for both widowed and divorced men and women are shown in Table IX for 1959 and also for earlier periods from 1931. Both the remarriage rate per 1,000 population over 15 and the equivalent ratio roughly standardised for age (already discussed in the section dealing with first marriages) were higher for both men and women in 1959 than they were in 1958. Among the age-groups identified in Table IX the rates for male age-groups between 35 and 55 fell slightly and the other age rates rose, while for the women all the age rates rose except for the 20-24 age-group where the rates are subject to considerable fluctuations which arise from the small numbers at risk.

Table IX. Remarriage rates by sex and age with ratios to those of 1938 taken as 100: 1931 and 1938 to 1959, England and Wales

The ratios were calculated before rounding off the rates

Marriage rate per 1.000	Aı		arriage each ag		er 1,000	in	Period		Ratios		tes to t		of 1938	
population over 15	20-*	25-	30-	35-	45-	55 and over	Terrod	20-*	25-	30-	35-	45-	55 and over	All
WIDOWERS AND DIVORCED MEN														
35·8 38·1	139·2 153·6	172·7 174·5	189·2 248·0	133·5 152·6	67·6 79·1	14·9 15·9	1931 1938		99 100	76 100	87 100	85 100	94 100	88
50·5	217·6	425·9	338·1	214·8	106·0	17·6	1939-50		244	136	141	134	111	133
55·2	133·7	406·8	318·8	206·4	117·2	19·7	1951-55		233	129	135	148	124	137
50·5	94·0	347·2	262·8	168 · 8	109·7	20·1	1956		199	106	111	139	126	124
48·4	75·5	289·4	255·9	157 · 6	105·3	20·1	1957		166	103	103	133	126	119
45·8	104·3	242·6	253·2	146 · 1	98·5	19·6	1958		139	102	96	125	123	113
46·7	123·3	244·5	257·5	145 · 2	97·9	20·8	1959		140	104	95	124	131	116
				WIDO	OWS A	ND DIV	ORCED V	VOME	N.					
9·8	128·2	138·8	94·1	36·5	14·1	2·2	1931	65	81	82	73	96	89	82
10·2	197·1	172·4	114·2	50·1	14·7	2·5	1938	100	100	100	100		100	100
15·7	294·0	308·6	170·3	73·0	21·6	2·7	1939–50	149	179	149	146	146	109	145
16·1	403·0	355·6	188·2	84·2	29·3	3·0	1951–55	204	206	165	168	199	122	168
14·4	450·0	460·0	196·1	80·5	29·7	3·0	1956	228	267	172	161	201	122	171
13·6	425·7	472·7	186·3	77·6	29·9	3·0	1957	216	274	163	155	203	121	167
12·6	603·5	482·8	210·8	73·2	28·3	3·0	1958	306	280	185	146	192	120	165
12·8	487·7	488·7	212·5	79·1	29·9	3·0	1959	247	283	186	158	203	122	172

^{*}Based on small numbers.

Widowed persons

Among the 19,372 widowers who remarried during 1959, 45 per cent married widows, 40 per cent spinsters and 15 per cent married divorced women, while among the widows who remarried in 1959, 54 per cent married widowers, 32 per cent bachelors and 14 per cent married divorced men. These proportions

[†]Age-standardised.

are similar to those which have obtained during recent years. For the last thirty years a higher proportion of widowers have married spinsters than widows have married bachelors, although the proportion of the former has fallen from over 60 per cent between 1926 and 1940 to the current level of about 40 per cent. The proportion of widows who marry bachelors has fallen since 1950 from just under a half to the current level of about 30 per cent. A large part of the decline in the proportion of widowed persons who marry spinsters and bachelors is due to the rise in the proportion who marry divorced persons although there has also been a slow rise in the proportion of widowed persons who intermarry.

The proportional age distributions of widowers and widows who remarried in 1959 and also during selected periods since 1891-95 are shown in Table X overleaf.

Table X. Proportional age distribution of remarriages of widowed persons, 1891 to 1959, England and Wales

	Not stated	66 40	32 28 19 16	19 19 19	155 155 156 159 159 159 159 159 159 159 159 159 159
	65 and over	41	15 20 27 19	30 51 62 69	59 60 98 112 116 127 131
	-09	29	32 33 34 35 35 35 35 35 35 35 35 35 35 35 35 35	33 50 53 61	59 87 87 106 113 116
	55-	47 50	47 52 51 41	52 76 76 83	72 120 120 130 124
OWS	50-	78	82 85 64	77 103 110 1115	105 95 1138 145 145 149
of widows	45-	119	1118 129 135 98	109 135 143 146	134 114 142 152 153 153
Age	40-	157	158 160 171 126	138 156 157 157	134 110 132 133 124 1109
	35-	177	192 192 193 162	182 175 162 149	118 130 117 101 102 94
	30-	170	182 177 167 191	200 145 131 116	1117 150 101 72 65 58 58 58
	25-	115	122 106 98 189	134 76 72 70	110 151 52 41 37 37 37
	Under 25	28 27	8448	26 15 16 18	66 13 14 15 17 17 17
Period		1891–1895 1896–1900	1901–1905 1906–1910 1911–1915 1916–1920	1921–1925 1926–1930 1931–1935 1936–1940	1941–1945 1946–1950 1951–1955 1956 1957 1958
	Not	L 4	30 30 23 24 24	2322	25 20 17 18 18 17
	65 and over	47	52 61 71 65	87 114 124 134	151 179 221 244 246 260 260
	99	55	2862	29 101	112 113 129 139 144 147
	55-	74 84	83 90 97 101	104 116 120 120	130 127 143 161 167 157 163
owers	-05	106	116 119 125 130	126 133 131 131 130	134 127 141 139 139 137
of widowers	45-	126 136	136 141 146 155	136 133 126 126	123 117 117 110 100 100 100
Age	9	148 150	152 152 150 150	135 126 119 113	115 106 92 77 75 69 69
	35-	153 158	155 153 151 138	137	99 95 65 53 51 54
	30-	132	130 123 109 105	109 91 97 89	584 4 8 8 2 8 2 8 2 8 2 8 8 8 8 8 8 8 8 8
	25-	76	68 61 53 54	55 46 43 43	35 23 17 16 16
	Under 25	10	10 8 7 7	2000	9988888

In 1959 just over two fifths of the widowers who remarried were over 60 years of age compared with a quarter of the widows. It is clear from Table X that the widows who remarried in 1959 had a younger age distribution than the widowers and Table L in Part II shows that the average age at remarriage for widowers was almost 57 years compared with almost 51 for widows. This age difference of six years is greater than the average difference in age at marriage of spinsters and bachelors. This is, in part, to be expected as the women at risk of marriage to a relatively old widower will tend to be younger than he is (the older the widower the greater the possible difference in age between him and his partner) and any compensating effect on the average age at marriage induced by marriages to both older and younger partners is therefore reduced.

Over the period shown in Table X the age at remarriage of widowed persons has risen. This is due to the improvement in mortality conditions over the last 70 years which has increased the average age of widowhood. In 1891-95, over half the widowers who remarried were under 45 years of age compared with 17 per cent in 1959, and 5 per cent were aged 65 and over in 1891-95 compared with more than a quarter in 1959. A similar change can also be seen for widows. The lines in Table X for 1916-20, 1921-25, 1941-45 and 1946-50 reflect the deaths during the two world wars in the increased proportions of all remarriages at relatively young ages.

Divorced persons

Among the 18,238 divorced men who remarried during 1959, 60 per cent married spinsters, 12 per cent married widows and the remaining 28 per cent married divorced women, while among the 17,714 divorced women who remarried, 55 per cent married bachelors, 17 per cent married widowers and 28 per cent married divorced men. The proportional distribution of marriages of divorced men according to the previous marital condition of their partner was similar to that of recent years, although the last thirty years have seen a fall in the proportion of divorced men who marry spinsters from nearly 80 per cent to the present level. This decline is accounted for by the rise in the proportion who marry divorced women which is linked to the increased frequency of divorce during this period. In 1959 the distribution of marriages of divorced women according to the previous marital condition of their partner is also similar to recent years and the main feature of the last thirty years has again been the increase in the proportion of divorced women who marry divorced men; this proportion has recently been at a level which is two and a half times that which obtained in the 1926-30 period. The main compensating fall has been in the proportion of divorced women who marry bachelors.

Table XI shows the proportional age distribution of divorced men and women who remarried in 1959 and in earlier years going back to 1941-45.

Table XI. Proportional age distribution of remarriages of divorced persons, 1941 to 1959, England and Wales

	Not	7	1	1	
	65 and over	_	_	33	wn4n
	-09	9	4	9	8 10 11
nen	55-	16	6	17	23 24 24 26
d wom	-05	37	26	42	52 56 58 62
Age of divorced women	45-	87	09	85	99 103 106 109
ge of c	40-	161	109	137	142 146 136 136
A	35-	229	188	187	192 194 200 200
	30-	262	251	260	232 217 211 208
	25-	169	285	213	194 192 191 185
	Under 25	30	99	49	55 59 57
Period		1941–1945	1946–1950	1951–1955	1956 1957 1958 1959
	Not	-		0	-00-
	65 and over	7	5	6	01122
	-09	15	10	15	118 23 23
	55-	35	23	34	46 449 51
d men	50-	73	51	75	89 87 90 96
divorce	45-	135	102	129	143 140 142 137
Age of d	40-	202	168	181	173 164 160 154
A	35-	247	236	206	191 200 202 206
	30-	196	242	223	200 200 191 192
	25-	78	150	117	116 119 1119 1114
	Under 25	11	12	11	13 14 14

This table shows that about two in every five divorced persons who remarried in 1959 were between the ages of 30 and 40 (compared with only 12 per cent of bachelors and 6 per cent of spinsters). The age distribution of divorced men is rather older than that of divorced women and this is reflected in Table L of Part II which shows that the average age at marriage of divorced men who remarried in 1959 was 41 years compared with 37 for divorced women. The age distribution of remarriages of divorced men and women in 1959 was a little older than that for the 1941-45 period but the main feature demonstrated by Table XI was the comparatively young age distribution of the remarriages of divorced persons immediately after the Second World War, a peak period for remarriages of divorced persons being closely linked with the peak in the number of divorces during the same period.

Widowed and divorced women

An attempt has been made to compute some marriage rates for the widowed and divorced separately for years since 1951, in the first place for women. They are rather tentative estimates, particularly at the younger ages, but probably give the correct impression of the differentials. The figures are shown in Table XII for age-groups over 25.

Table XII. Remarriage rates of women by age, 1951 to 1959, England and Wales

Per 1,000 population in each group by age and condition

		Wid	ows			Year			Divor	ced won	nen	
All	25-	30-	35-	45-	55 and over	1 ear	All	25-	30-	35-	45-	55 and over
9 8 8 8	165 174 180 215 255	113 121 111 110 127	56 54 56 54 56	22 23 22 23 24	3 3 3 3	1951 1952 1953 1954 1955	153 150 136 125 124	373 406 .378 370 384	246 249 239 225 236	144 146 132 125 128	68 73 70 63 64	22 21 20 19 20
7 7 6 7	277 278 219 266	125 133 133 168	56 54 51 53	23 23 22 23	3 3 3 3	1956 1957 1958 1959	115 107 98 96	381 361 350 351	228 219 216 228	122 117 110 110	60 58 53 54	18 17 16 16

From the rates of Table XII it would seem that the marriage rates of divorced women are rather higher than those of widows of the same age; even the latter are higher than the corresponding rates for spinsters in Table VII. The marriage rates of widows have risen at the younger ages and have remained relatively stable over the age of 35, while the marriage rates of divorced women have tended to fall since 1951.

The relation between marriage rates and population structure

A set of marriage rates can be summarised in the form of a nuptiality table in the same way as death rates may be presented in the form of a life table. This is a convenient way of demonstrating the implications of a set of marriage rates and the results can be combined with fertility rates or mean family sizes in the calculation of replacement rates.

Net nuptiality tables for males and females based on the marriage rates of 1951-55 were published in Appendix C of the 1956 Commentary. Since then marriage rates at the younger ages have risen and abridged nuptiality tables have been calculated to indicate the general effect of this rise. Table XIII has been produced from the 1951-55 nuptiality tables and abridged nuptiality tables for 1959; it shows the proportions ever-married which would obtain between the ages of 15 and 50 if the marriage rates for these particular years were to continue indefinitely. Table XIV on the other hand shows the proportions ever-married at these ages for census years since 1881 and also in the annual population estimates for 1941, 1946, 1956 and 1959.

Table XIII. Proportions ever-married, according to the net nuptiality of 1951-55 and 1959, England and Wales

(Per thousand)

Nuptia 1951–55		Age- group	Wor Nuptia 1951–55	
6	10	15-19	49	61
251	299	20-24	528	587
685	742	25-29	838	881
844	865	30-34	909	932
897	908	35-39	931	949
920	927	40-44	940	955
930	935	45-49	945	959

Table XIV. Proportions ever-married among men and women, 1881 to 1959, England and Wales

(Per thousand)

			Age of	men						Age	of wom	nen		
15-	20-	25-	30-	35-	40-	45-49	Year	15-	20-	25-	30-	35-	40-	45-49
5	223	609	769	848	878	901	1881	26	335	649	777	834	861	877
4	194	573	753	838	871	896	1891	20	299	606	754	823	850	871
3	174	548	748	824	861	886	1901	16	274	588	745	801	831	858
2	143	508	728	814	852	873	1911	12	243	566	730	790	820	835
4	178	554	769	837	863	876	1921	18	274	590	749	796	821	832
3	139	529	782	863	887	890	1931	18	258	594	751	794	819	832
9	203	617	803	864	888	906	1941	39	402	719	783	801	827	831
9	199	612	798	864	881	891	1946	35	442	713	829	832	836	840
5	238	651	810	867	891	902	1951	44	482	783	854	867	858	848
8	277	665	835	875	897	911	1956	55	542	813	884	890	895	869
12	318	674	843	883	899	916	1959	61	569	835	900	899	909	885

On the basis of 1959 nuptiality only 6.5 per cent of the men and 4.1 per cent of the women in the 45-49 age-group would remain unmarried. Comparison between Tables XIII and XIV shows that at all but the youngest ages shown, the proportions implied by either the 1951-55 or the 1959 marriage rates are rather higher than any that have actually been recorded in England and Wales. The proportion ever-married for the 45-49 age-group based on 1959 nuptiality

exceeded those at the 1951 Census by 3 per cent for men and 11 per cent for women, and also exceeded the proportions in the estimated population at mid-1959 by 2 per cent for men and 7 per cent for women.

It should be remembered that nuptiality tables are based on a population with a particular sex and age structure. It is therefore possible for the male and female tables to be inconsistent in the sense that if the marriage rates on which they are based were to continue in effect indefinitely, they would produce more marriages of men under 50 than of women under 45 though these two are usually about equal in number. The reason for this feature is that the sex and age structure of the present unmarried population still contains the balance of the former surplus of women which is now, however, becoming confined to the older ages where few marriages take place. In this way the abridged nuptiality table of 1959 implies 2 per cent more marriages of men under 50 than of women under 45 (the excess was 3 per cent in the 1958 abridged nuptiality table). This effect appears to be one factor behind the recent situation in which, while the first marriage rates for the older age-groups of both sexes are tending to fall, the rates for men have decreased rather more than those for women.

The probabilities of marriage on which the abridged nuptiality tables for a given year are based refer to the experience of different generations in a single calendar year. One effect of this is to make them of limited value as a guide to long-term prospects for which it would be better to compare the experiences of different generations at the same ages but in different calendar periods rather than different generations at different ages in the same calendar period as is done in Table XIV. Table XV is a rearrangement of Table XIV to facilitate such comparisons. The use of census data at intervals of ten years prevents the tracing of a generation at shorter intervals without the use of interpolation procedures, which have therefore been used to estimate the proportions at ages 20-24, 30-34 and 40-44 for generations before 1902-06. For the more recent generations the use of data from the annual population estimates provides proportions in each five year group.

Table XV. Proportions ever-married among generations of men and women born since 1862, England and Wales

(Per thousand)

		Ag	ge of me	n			Period			Age of	women			
15-	20-	25-	30-	35-	40-	45-49	of birth	15-	20-	25-	30-	35-	40-	45-49
5 4 3 2	209* 184* 155* 161*	573 548 508 554	751* 735* 746* 777*	824 814 837 863	855* 855* 876* 889*	873 876 890 906	1862-66 1872-76 1882-86 1892-96	26 20 16 12	318* 286* 255* 258*	606 588 566 590	749* 736* 733* 744*	801 790 796 794	824* 820* 820* 821*	835 832 832 831
4 3 3 6	160* 139 152 203	529 530 617 612	763 803 798 810	864 864 867 875	881 891 897	902 911 —	1902-06 1907-11 1912-16 1917-21	18 14 18 22	257 258 290 402	594 616 719 713	740 783 829 854	801 832 867 890	836 858 895	848 869 —
9 9 5 8	199 238 277	651 665 —	835		-		1922–26 1927–31 1932–36 1937–41	39 35 44 55	442 482 542	783 813 —	884	Selection Selection Selection		

^{*}Interpolated values.

Table XV illustrates the slow but steady rise in the proportion ever-married at 45-49 for both men and women. There has been a rise in the proportion

ever-married at all age-groups for both men and women since the beginning of the century, although the later part of the nineteenth century was marked by a slight fall in the proportion ever-married. Comparison of the columns for the 35-39 age-group for men and women shows the relative change in the proportions married; from the 1862-66 generation the excess of the ever-married proportion of men over that for women rose from 23 per thousand to 69 per thousand in the 1892-96 generation then fell to zero for the 1912-16 generation while the 1917-21 generation shows a female excess of 15 per thousand. An examination of Table XV shows that the proportion ever-married at ages 45-49 seems likely to rise, particularly for women where the proportion in the 1959 condition estimate for this age-group was below the 895 per thousand of the 1912-16 generation who were ever-married before reaching the 40-44 age-group. It seems likely that the proportions ever-married in actual generations of men and women will move towards those implied by the nuptiality tables unless any major disturbing factor arises.

Comparisons have been made above between the proportions of men and women in the same age-group. Allowance should, however, be made for the difference between the average age at marriage of men and women. In order to obtain a useful estimate of the relative numbers of men and women in the main marrying age-groups a rough allowance has been made for this difference by relating the average of the male populations at ages 15-44 and 20-44 last birthday (about $17\frac{1}{2}$ -45 in exact years) to the average of the female populations at ages 15-44 and 15-39 last birthday (15-42 $\frac{1}{2}$ in exact years). The estimates so obtained are as follows:

			Ce	ensus			Mid-1959	Nuptiality	Abridged nuptiality
	1871	1901	1911	1921	1931	1951	(estimate)	table 1951–55	table 1959
All conditions	877	876	892	846	892	988	999	1,039	1,042
Unmarried	786	787	808	724	800	968	1,056	1,087	1,114

The last two columns are based on the average number of survivors in the net nuptiality tables for 1951-55 and 1959 and it should be remembered that the ratios for the unmarried in these columns are affected by the inconsistency in male and female marriage rates which has already been discussed. If the female rates were to become consistent with the male there would be fewer unmarried women left and the ratios would be slightly larger. The sequence of the figures shows that a combination of factors, including the slight increase in the proportion of male live births, the decrease in the predominantly male net emigration and the much smaller number of male war deaths in 1939-45 than in 1914-18, has been establishing a balance between the sexes.

Total married women of reproductive age

The effect of high marriage rates in raising the proportion of the population which is married is an important influence on the fertility of the community which depends to a considerable extent on the number of married women in the population. Table XVI shows the proportions married in five year agegroups under 50 for selected years since 1911 when the rise in the proportion

married first became apparent. The proportions are also shown for the 15-49 aggregate age-group and also for the more critical 20-39 age-group within which 90 per cent of births occur.

Table XVI. Married women per 1,000 total female population in each age-group and ratio of proportion to that of 1938 taken as 100: selected years 1911 to 1959, England and Wales

77			£	Age-group				Aggre	gates
Year	15–19	20–24	25–29	30–34	35–39	40–44	45–49	20–39	15–49
		Marr	ied wome	n per 1,00	0 total fer	nale popu	ılation		
1911 1931 1938	12 18 23	242 257 328	558 587 643	711 733 733	752 755 771	755 749 768	729 733 736	552 572 623	502 529 566
1946	35	436	696	800	797	784	762	686	626
1951	42	475	769	828	832	812	780	731	666
1957 1958 1959	60 61 61	552 561 566	814 822 830	872 880 886	862 867 870	851 854 861	810 815 821	782 789 794	703 706 707
				ortion to t efore roun					
1911 1931 1938	52 78 100	74 78 100	87 91 100	97 100 100	97 98 100	98 98 100	99 100 100	89 92 100	89 93 100
1946	153	133	108	109	103	102	103	110	111
1951	184	145	120	113	108	106	106	117	118
1957 1958 1959	260 265 266	168 171 173	127 128 129	119 120 121	112 112 113	111 111 112	110 111 112	125 127 127	124 125 125

The proportion married increases with advancing age, at first rapidly and then more slowly, to a maximum close to age 35; as new marriages are increasingly offset by widowhood the proportion then declines slowly. The proportion married has increased within each age-group throughout the period shown in Table XVI. The proportion married in 1959 exceeded that of 1938 by 166 per cent at ages 15-19 and by 73 per cent at ages 20-24; the rise of 29 per cent at ages 25-29 is hardly less significant as it applies to larger proportions married.

The column for the 15-49 age-group represents the fraction of the reproductive years which fall within married life, and Table XVI shows a slight increase in this fraction from 50·2 per cent to 52·9 per cent between 1911 and 1931 followed by a more rapid rise to 56·6 per cent in 1938 and 70·7 per cent in 1959. These increases are partly due to the ageing of the 15-49 age-group since 1911 which has increased the relative number at the older ages in this age-group where the proportion married is greater. This element can be removed by calculating the number of women who would have been married if the age-group proportions married had been those of 1911; the actual number

of married women can then be divided by the standardised number to produce a set of marriage indices standardised on the 1911 proportions married. These indices are compared with the unstandardised figures derived from Table XVI in the following statement:

Year	1911	1921	1931	1941	1951	1958	1959
Standardised	1.000	1.008	1 · 022	1 · 125	1 · 200	1 · 280	1 · 291
Unstandardised	1.000	1.025	1.054	1 · 201	1 · 327	1 · 406	1 · 408

The above figures show that the true increase in the proportion married among women aged 15-49 was 29 per cent compared with the 41 per cent suggested by the unstandardised proportions. A little less than a third of the latter increase is due to the ageing of the population and is unrelated to the changing incidence of marriage.

Seasonal incidence of marriage

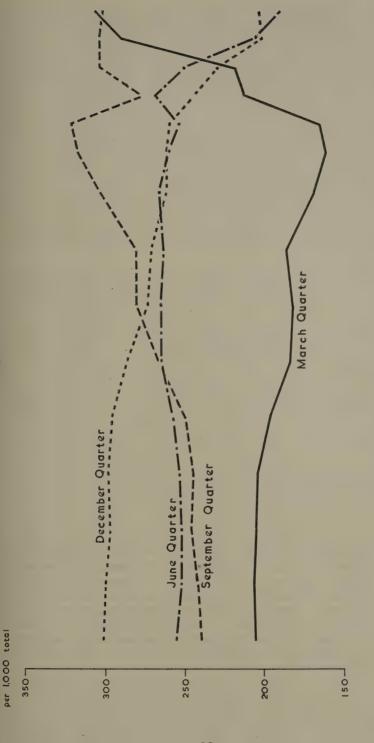
The numbers of marriages and rates per 1,000 population by calendar quarter are shown in serial form in Table D of Part II and monthly numbers of marriages since 1947 are shown in Table N with ratios of the daily average for each month to that of the calendar year.

The proportions of the marriages of each year which took place in each quarter for years since the 1841-50 period are shown in Table XVII and illustrated in Diagram 2.

Table XVII. Proportion of marriages in each quarter, 1841 to 1959, England and Wales

Period		Quarte	r ended	
	March	June	September	December
1841–1850	205	255	239	301
1851–1860	206	252	242	300
1861–1870	205	252	246	297
1871–1880	204	253	245	298
1881–1890	197	257	250	296
1891–1900	184	265	266	285
1901–1910	182	265	280	273
1911–1920	186	263	280	271
1921–1930	170	266	303	261
1931–1935	162	260	317	261
1936–1940	166	253	321	260
1941–1945	212	268	276	244
1946–1950	218	250	303	229
1951–1955	289	206	303	202
1956–1959	305	191	301	203
1956	303	195	303	199
1957	317	190	299	194
1958	302	195	299	204
1959	298	186	302	214

Number of marriages



1951 1941 1931 Proportion of marriages in each quarter, 1841 to 1959, England and Wales 1921 1161 1061 - 1681 1861 1871 1881

The quarterly distribution of marriages in 1959 differs little from that of recent years. The March and September quarters each accounted for 30 per cent of the year's marriages, the December quarter for about 21 per cent of the total and the June quarter for 19 per cent. Table XVII illustrates the change which has taken place over the last hundred years. In the 1851-60 period the December quarter accounted for 30 per cent of all marriages, the June quarter for 25 per cent, the September quarter for 24 per cent and the March quarter had the smallest share with 21 per cent. The period up to the outbreak of the Second World War saw a steady rise in the proportion of marriages in the September quarter, while the share of the December and March quarters fell. The effect of these changes was such that in the 1936-40 period the share of the September quarter had risen to 32 per cent of the total and the proportions in the March and December quarters had fallen to 17 and 26 per cent respectively. During this period the share of the June quarter tended to rise very slowly. The period since 1940 has been marked by the rapid rise in the proportion of marriages in the March quarter. This rise has had the effect of reducing the proportions in all the other quarters, but particularly in the June and December quarters.

Table XVIII is an extract from Table N of Part II showing the numbers of marriages in each month and also the ratios of the daily averages for each month to the daily averages for the calendar years for recent years. The most noticeable feature is the very pronounced peak in March when the daily average in 1959 was 2.3 times that for the year as a whole and which accounted for one fifth of all the marriages which took place in 1959. There is a secondary peak in September which is approached by slowly rising ratios for the period from June onwards and which is in contrast to the isolated peak in March, The tendency to a pronounced peak in March irrespective of the date of Easter seems to have become steadily more marked over the last ten years, although the evidence of the quarterly figures discussed above suggests that the shift towards March may well have started during the disturbed conditions of the Second World War. No doubt the main current influence towards this peak in March is that the income tax year ends on April 5th and that some people bring their marriage forward into the earlier tax year in order to take advantage of the additional tax relief. A similar phenomenon has been noted in some other countries, the month depending on the local tax law.

Apart from the concentration in March, there is a tendency towards an annual cycle from the secondary peak already noted in the late summer to the relatively few marriages in the winter months, but these features are affected by the concentrations associated with Easter and Christmas. The true monthly pattern is further disturbed by the distribution of marriages over the days within the week. The popularity of Saturday marriages has the effect that figures for the same month can differ from year to year according to the number of Saturdays in the month. The months marked by an asterisk in Table XVIII contained five Saturdays and it is noticeable that such months usually have higher ratios than similar months falling in years when they contain only four Saturdays.

Table XVIII. Monthly incidence of marriage, 1947 to 1959, England and Wales

Total for period		1,531,632	352,944 346,903 339,913 340,126		1,000	1,000	
Dec- ember		154,801 158,920	32,973 27,374 26,322 24,627	ı	1,191	1,104* 929 912 852	
Nov- ember		82,372	15,947 18,199 19,048 15,548		565	552 638* 682* 556	
Octo- ber		105,026 114,109	21,158 21,817 24,005 32,649	as 1,000	808	709 741 832 1,130*	
Sep- tember		162,808 185,313	42,276 36,967 36,683 39,600	Ratio of daily average for the month to daily average for the year taken as	1,294	1,462* 1,297 1,313 1,416	
August		146,750	34,503 38,192 37,115 35,601	ge for the 3	1,129	1,155 1,296* 1,286* 1,232*	
July	marriages	162,258	30,144 28,458 27,900 27,390	daily avera	1,248	1,008 966 966 948	
June	Numbers of marriages	151,447	32,179 34,620 27,548 26,018	month to	1,204	1,113* 1,214* 986 931	
May	Z	88,828 85,085	15,529 12,150 17,434 17,142	age for the	683	520 412 604* 593*	
April		137,984	21,113 19,034 21,229 20,121	daily aver	1,097	730 668 760 720	
March		172,641 322,146	73,573 76,244 68,912 67,028	Ratio of	1,328 2,163	2,462* 2,588* 2,387* 2,320	
February		86,917	19,898 19,954 20,777 18,972		734	712 750 797 727	
January February		79,800	13,651 13,894 12,940 15,430		614	456 472 448 534*	
Period		1947–1950	1956 1957 1958 1959		1947–1950 1951–1955	1956 1957 1958 1959	

*These months contained five Saturdays.

Marriage incidence in different parts of the country

The numbers of marriages in regions, counties and county and metropolitan boroughs are shown in Table F of Part II, and the number of persons marrying in each region and conurbation by age and previous marital condition in Table M. These figures have to be used with caution because the district where the marriage takes place may contain the residence of only one of the parties and sometimes of neither. This factor distorts differences between marriage rates for local areas, though less so in comparisons between areas as large as regions and conurbations, and Table XIX shows the marriage rates of 1959 for these areas. In addition to the marriage rates per 1,000 population of all ages, Table XIX shows the marriage rates per 1,000 unmarried women in the age-groups between 15 and 44 and also for the 15-44 aggregate in both an unstandardised form and, in addition, standardised on the England and Wales age distribution. Table XIX also shows the ratios of the 15-44 age-group rates on the different bases for regions and conurbations to those of England and Wales.

Table XIX. Marriage rates in regions and conurbations, 1959, England and Wales The ratios were calculated before rounding off the rates

				Won	nen marryi	ing per 1.	000 unmai	Women marrying per 1,000 unmarried women aged	· · · · · ·	Ratio of rate	Ratio of rate to that of England and Wales	and Wales
		Persons								Persons	Women marrying per 1,000	g per 1,000
Area		per 1,000 population						15-44		marrying per 1,000	unmarried women aged 15–44	vomen 44
		ol all ages	15-	20-	25-	30-	35-44	Unstandardised	Standardised	population of all ages	Unstandardised	Standardised
ENGLAND AND WALES	:	15.0	5.95	265.8	168 - 8	98.3	43.6	112.6	112.6	1,000	1,000	1,000
Northern Region Tyneside Conurbation Remainder of Northern	:::	15:2 16:4 14:8	48.8 49.4 48.6	278.4 272.7 280.7	178.8 186.2 175.8	94·4 100·3 91·8	45·1 48·3 43·7	112.6 114.6 111.8	112.4	1,014 1,092 986	1,000	998 1,003 996
East and West Ridings Region West Yorkshire Conurbation Remainder of East and West Ridings	:::	15.2 15.7 14.9	59.3 60.0 58.9	309.9 309.3 310.4	179.5 186.5 173.9	93.4 101.2 87.2	42.4 39.7 44.9	120.4 122.6 118.9	124.0 124.9 123.4	1,015 1,046 995	1,089 1,089 1,056	1,101 1,109 1,096
North Western Region South East Lancashire Conurbation Meresyside Conurbation Remainder of North Western	::::	14.9 16.2 14.2	53.6 59.6 46.2 53.1	264.4 277.5 233.6 274.1	161.0 166.6 160.0 156.5	89.6 94.9 94.9 81.5	38.5 41.7 38.3 35.6	109·3 114·7 101·6 109·3	108.9 115.9 98.7 109.4	1,002 1,083 948	970 1,019 903 971	967 1,030 877 972
North Midland	:	14.7	64.5	297.6	179.2	108.8	47.7	122.2	125.5	982	1,085	1,115
Midland Conurbation Remainder of Midland	:::	15.2 16.4 14.1	59.4 62.9 55.8	274.9 280.9 268.2	166.0 169.4 162.4	98.5 103.9 92.8	47.2 51.3 43.1	116.7 122.5 110.8	116-2 120-5 111-8	1,016 1,096 939	1,037 1,088 984	1,032 1,070 993
Eastern	:	12.3	53.0	231.1	138.1	83.5	34.9	0.86	98.4	819	870	874
London and South Eastern Region Greater London Conurbation Remainder of London and South Ea	Eastern	16.4 16.6 15.8	56.5 54.7 61.4	251.0 239.1 293.1	179.2 182.1 168.6	109.9 113.7 96.4	46.8 48.4 41.8	114.0 113.1 117.0	111.4 108.6 120.5	1,093 1,106 1,054	1,013 1,004 1,039	989 965 1,070
Southern	:	13.5	59.8	249.8	151.4	95.6	41-3	106.5	108.5	006	946	963
South Western	:	14.4	57.6	271.4	164.3	91.2	42.2	111.9	113.3	958	994	1,006
Wales (including Monmouthshire) Wales I (South East) Wales II (remainder)	:::	14.6 14.9 14.0	54·2 59·0 41·8	259.7 276.0 223.5	169.4 167.4 173.7	96·1 92·3 104·5	43·1 44·6 40·1	109.8 114.5 98.7	109.9 115.6 96.4	977 994 933	975 1,017 877	976 1,027 856

The Greater London Conurbation has the highest rate per 1,000 population for the individual areas shown in Table XIX, being 11 per cent higher than England and Wales. Three other conurbations (Merseyside, Tyneside and West Midlands) all have marriage rates per 1,000 population which are between 8 and 10 per cent higher than England and Wales and the London and South Eastern Region has the highest rate for a complete region. At the other extreme the Eastern Region has a rate which is 18 per cent below that of England and Wales and the Southern Region and Wales II also show low marriage rates per 1,000 population.

If the comparison is made in terms of the number of marriages per 1,000 unmarried women aged 15-44 a rather different picture emerges, indicating that many of the differences in the marriage rates per 1,000 population are due not to variations in the probability of marriage but to differences in the sex, age and marital condition structure of the populations of the different areas. The West Yorkshire and West Midlands Conurbations and the North Midland Region with rates that are 9 per cent higher than England and Wales show the highest rates per 1,000 unmarried women aged 15-44. On the other hand the Eastern Region and Wales II still have relatively low rates on this basis. The Merseyside Conurbation, where the marriage rate per 1.000 population is 8 per cent above the England and Wales rate, has a rate per 1.000 unmarried women aged 15-44 which is more than 9 per cent below the corresponding national rate. The effect of the difference in the basis of the rates is also demonstrated by the upward change in the rate for the North Midland Region and both parts of the East and West Ridings Region and the downward movement in the rates for the Greater London and Tyneside Conurbations when the number of marriages is expressed in terms of unmarried women aged 15-44.

The effect of further standardisation on the basis of the England and Wales age distribution within the 15-44 aggregate age-group is in general to shift the rates a little further in the same direction. The relative proportion of unmarried women in the 15-44 age-group is of more importance as a factor affecting the relative frequency of marriage than the age distribution within that group. Nevertheless, the differences in the proportion of unmarried women in the 15-44 age-group do not account entirely for the differences in the frequency of marriages between the areas in Table XIX. The marriage rates per 1,000 unmarried women in the North Midland Region and the West Midlands Conurbation are higher than the England and Wales rates for all the age-groups identified in Table XIX and the same is true for most age-groups in both parts of the East and West Ridings Region. Conversely, the rates are lower for all age-groups in the Eastern Region and the Merseyside Conurbation and for most age-groups in the Southern Region.

The general ranking of the areas in Table XIX is similar in both 1959 and 1958 though there are differences in detail. As far as the Southern and South Western Regions are concerned, the comparison is disturbed by the transfer of the whole of Dorset from the Southern to the South Western Region. This has the effect of raising slightly the rates in the South Western Region with a corresponding fall in the rates for the Southern Region.

DIVORCES

The numbers of dissolutions and annulments of marriage showing petitions filed and decrees absolute granted in 1959 and past years are shown in Table O in Part II and the dissolutions and annulments of 1959 are analysed further in Tables P1 to P6 of Part II. In 1959 there were 25,689 petitions for dissolution of marriage and 638 for annulment; 23,837 decrees for dissolution of marriage and 449 for annulment of marriage were made absolute. The numbers of petitions and decrees absolute for dissolution represent a slight increase over the figures for 1958 but the numbers of petitions and decrees for annulment are below the level of the past few years. The 24,286 decrees for dissolution and annulment which were made absolute in 1959 represent a rate of 21 per 10,000 married couples.

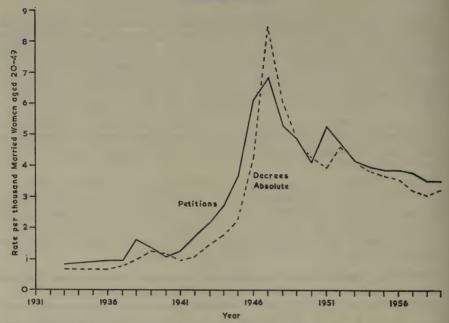
Table XX summarises the figures of Table O for the last three decades. It relates the numbers of petitions filed and decrees made absolute to the number of married women aged 20-49. The use of this age range, which has recently accounted for 85 to 90 per cent of all divorces, as a denominator in place of the total number of all married couples affords a rough measure of standardisation. The rates from Table XX are shown in Diagram 3.

Table XX. Dissolutions and annulments of marriage: new petitions filed and decrees made absolute, 1931 to 1959, England and Wales

	Petition	ns filed	Decrees abs	olute granted
Year	Number	Per 1,000 married women aged 20–49	Number	Per 1,000 married women aged 20–49
1931–35*	4,784	0·80	4,011	0·67
1936	5,749	0·92	4,057	0·65
1937	5,903	0·93	4,886	0·77
1938	10,233	1·59	6,250	0·97
1939	8,703	1·33	7,955	1·22
1940	7,086	1·05	7,755	1·15
1941	8,305	1·21	6,368	0·93
1942	12,003	1·72	7,618	1·09
1943	15,385	2·19	10,012	1·43
1944	18,969	2·70	12,312	1·75
1945	25,711	3·65	15,634	2·22
1946	43,163	6·09	29,829	4·21
1947	48,501	6·81	60,254	8·47
1948	37,919	5·28	43,698	6·08
1949	35,191	4·87	34,856	4·82
1950	29,729	4·09	30,870	4·24
1951	38,382	5·23	28,767	3·92
1952	34,567	4·69	33,922	4·60
1953	30,542	4·14	30,326	4·11
1954	29,036	3·93	28,027	3·79
1955	28,314	3·83	26,816	3·62
1956	28,426	3·83	26,265	3·54
1957	27,858	3·74	23,785	3·19
1958	26,239	3·52	22,654	3·04
1959	26,327	3·52	24,286	3·25

^{*}Annual average.





Divorce petitions filed and decrees absolute granted, per 1,000 married women aged 20-49, 1931 to 1959, England and Wales

The Matrimonial Causes Act of 1857 first made civil divorce available without a private Act of Parliament, but the rise in the numbers of divorces was not disproportionate to the increase in the population until the First World War. After the disturbance caused by the First World War there was a slow rise in divorce until the extension of the permissible grounds for divorce under the Matrimonial Causes Act of 1937. The effect of this Act is shown by the rise in the rate of petitioning in 1938 and in decrees absolute granted in 1939 and 1940. The Second World War led to a sharp and sustained rise in petitioning and the granting of decrees absolute from 1942 until 1947. The fall in the rates of petitioning and the granting of decrees absolute from the peak of 1947 appears to have been checked by the enactment of the Legal Aid and Advice Act of 1949 which increased the financial assistance to litigants. The effect of this Act shows up in the rise in petitions in 1951 (the Act came into operation on 2nd October 1950) and in decrees absolute granted in 1952. The disturbance occasioned by this Act seems to have worked itself out by 1954 and since then the rates for both petitions and decrees absolute granted have tended to fall slowly, although the figures for petitions and still more for decrees absolute granted show a rise in 1959 compared with 1958. apparent rise in 1959 may be partly due to the depression of the figures for 1958 by the operation of the Matrimonial Causes (Decree Absolute) General Order, 1957, which applied to petitions filed on or after 30th April 1957 and which increased the normal interval between the granting of a decree nisi and the making of it absolute from six weeks to three months. The apparent rise of the figures for 1959 may only mark a return to the slowly declining trend of recent years.

In 1959 the rate of petitioning per 1,000 married women aged 20-49 was 10 per cent below the rate for 1954 and the corresponding rate for decrees absolute granted was 14 per cent lower than in 1954. This decline must be set in perspective against the great upheaval in the level of divorce rates during and after the Second World War which is clearly shown in Diagram 3.

The relationship between the numbers of petitions filed and the numbers of decrees absolute granted in any single calendar year varies according to changes in the interval between the granting of a decree *nisi* and the making of this decree absolute and also according to the accumulation of business in the courts, but over the period between 1954 and 1959 it appears that nine out of ten of the petitions filed for dissolution of marriage have resulted in a decree absolute being granted and seven or eight out of every ten petitions for the annulment of marriage have resulted in the granting of a decree absolute.

Parties to whom and grounds on which decrees granted

Table P1 in Part II shows figures of the decrees made absolute in 1959 classified by the party to whom the decree was granted and the grounds on which it was granted.

Among the 24,286 decrees absolute granted in 1959, 449 were for annulment of marriage of which 53 per cent were granted to the husband. The remainder were decrees for dissolution of marriage of which 45 per cent were granted to the husband. There were 84 cases where the decree of dissolution was granted to both parties.

Table XXI shows for 1959 the distribution of grounds on which decrees absolute were granted according to the party to whom the decree absolute was granted. The entries in this table amount to more than the total number of decrees because of the granting of decrees on more than one ground and also the granting of a decree to both parties. Section (ii) shows the distribution of each ground by the party to whom the decree was granted and Section (iii) shows the proportion of the decrees granted to each party in which each ground was mentioned teither alone or with one or more other grounds).

Table XXI. Grounds on which decrees absolute were granted, by party, 1959, England and Wales

Party to whom		Ground										
decree absolute granted	Adultery	Desertion	Cruelty	Lunacy	Presumed dead	Others	Total					
		(i) Number	'S								
Husband Wife	6,431 5,844	4,395 4,754	350 3,476	85 55	23 27	1 19	11,285 14,175					
	(ii) Distri	ibution per	1,000 of e	ach groun	d by party							
Husband Wife	524 476	480 520	91 909	607 393	460 540	50 950	443 557					
(iii) D	istribution	per 1,000 to	tal groun	ds for each	h party, by g	ground						
Husband Wife	570 412	389 336	31 245	8 4	2 2	1	1,000 1,000					

Adultery was the most frequent ground, irrespective of whether the decree was granted to the husband or the wife. Among decrees in which adultery was mentioned as a ground, 52 per cent were granted to the husband. Desertion is the second most frequent ground and 52 per cent of the decrees where desertion was a ground were granted to the wife. Cruelty is the third common ground but it occurred mainly in decrees granted to the wife (nine out of ten decrees where cruelty was mentioned in 1959 were granted to the wife). These three main grounds accounted for 99 per cent of all the grounds mentioned in decrees absolute granted in 1959.

Present ages of parties

Dissolutions and annulments by age of husband and wife at the date of the decree absolute are shown in Table P2 of Part II with rates per 1,000 married men or women in that age-group. These rates for 1959 are reproduced in able XXII with comparable figures for years since 1950.

Table XXII. Divorce rates per 1,000 married persons by age at divorce, 1950 to 1959, England and Wales

				Age at da	te of decre	ee absolut	e						
Year	All ages	Under 25	25-	30-	35-	40-	45-	50-	60 and over				
	Husbands												
1950	2·8	2·5	5·7	5·3	4·4	3·3	2·3	1·3	0·3				
1951	2·6	2·0	4·8	5·0	4·2	3·2	2·3	1·3	0·3				
1952	3·0	2·1	5·3	5·7	4·8	3·8	2·8	1·7	0·4				
1953	2·7	2·2	4·8	5·0	4·3	3·4	2·6	1·4	0·4				
1954	2·5	2·1	4·3	4·4	4·1	3·2	2·3	1·4	0·3				
1955	2·4	2·0	4·2	4·4	3·7·	3·0	2·3	1·3	0·3				
1956	2·3	1·9	4·1	4·2	3·5·	3·0	2·3	1·3	0·3				
1957	2·1	1·1	3·6	3·7	3·3	2·6	2·2	1·3	0·3				
1958	1·9	1·0	3·3	3·5	3·1	2·6	2·0	1·2	0·3				
1959	2·1	1·1	3·6	3·9	3·2	2·9	2·1	1·3	0·3				
				W	'ives								
1950	2·8	3·3	6·2	5·1	3·8	2·8	2·1	0·9	0·2				
1951	2·6	2·9	5·3	4·8	3·6	2·8	1·9	1·0	0·2				
1952	3·0	3·3	6·1	5·3	4·3	3·3	2·4	1·2	0·3				
1953	2·7	3·2	5·3	4·7	3·9	2·9	2·2	1·1	0·2				
1954	2·5	2·9	4·9	4·2	3·7	2·7	2·0	1·0	0·2				
1955	2·3	$ \begin{array}{c c} 3 \cdot 0 \\ 2 \cdot 9 \\ 2 \cdot 0 \\ 2 \cdot 1 \end{array} $	4·6	4·2	3·2	2·6	2·0	0·9	0·2				
1956	2·3		4·6	4·0	3·2	2·6	1·9	0·9	0·2				
1957	2·0		4·1	3·6	2·9	2·3	1·8	0·9	0·2				
1958	1·9		3·8	3·3	2·8	2·3	1·7	0·9	0·2				
1959	2·1		4·1	3·7	2·9	2·5	1·8	1·0	0·2				

The slightly younger age distribution of wives compared with husbands at the time of the divorce is reflected in the age rates shown in Table XXII. This

feature derives from the younger marriage age distribution of wives. Just over half the divorced husbands and wives were between 25 and 40 years old.

The increase in decrees absolute granted in 1959 compared with 1958 appears to have affected all age-groups. In comparing divorce rates by age since 1950 it appears that the fluctuations have been greater at the younger ages for both husbands and wives. In 1959 the divorce rate for husbands under 25 years of age was 44 per cent, and that for the 25-29 age-group 63 per cent, of the corresponding rates in 1950, while the rates for husbands aged over 40 were only 12 per cent less than the corresponding rates in 1950. A similar though less well marked gradient with age is visible in a comparison of age specific divorce rates of wives between the two years.

Duration of marriage and marriage age of wife

Table P4 in Part II shows the numbers of decrees absolute granted during 1959, classified by duration of marriage and the marriage age of the wife. Divorce rates per thousand married women are also shown where the wife was under the age of 50 at the date of the decree, these being the only ages where estimates of the numbers of married women are available. An extract from the rates section of Table P4 is reproduced in Table XXIII.

Table XXIII. Dissolutions and annulments of marriage made absolute, by duration of marriage and marriage age of wife. Rates per 1,000 married women, 1959, England and Wales

Age of wife at		Duration of marriage (completed years)														
marriage	0-2	3	4	5	6	7	8	9	10	11	12	13	14	15–19	20-24	25–29
Under 20 20- 25- 30- 35- 40-44	0·3 0·2 0·3 0·4 0·3 0·4	3·7 1·9 1·6 2·1 1·8 1·3	8·5 4·3 3·4 3·4 3·6 3·1	8·3 4·2 3·2 2·7 2·6 2·3	9·0 4·0 3·0 2·1 3·0 <i>I</i> ·8	8·1 4·1 2·9 3·0 2·4 2·3	7·3 3·8 3·0 3·2 2·9	6·8 3·6 3·0 3·5 3·0	7·3 3·5 3·1 2·8 3·6	7·3 3·8 2·5 3·2 1·9	6·4 3·3 2·2 2·8 2·2	5·8 3·1 2·2 2·0	5·0 3·0 2·1 2·3	4·3 2·5 1·6	3.9	2.8

In general, age at marriage exerts a greater influence on divorce rates than current age. The rates in Table XXIII show a regular progression; they fall with increasing age at marriage and also with increasing duration of marriage (normally a petition for divorce may not be filed within three years of the date of the marriage). Table XXIII shows that divorce rates tend to be highest when the marriage has been in existence between four and eleven years, and then to decline steadily with increasing marriage duration. At durations 4 to 11 the divorce rates for marriages where the wife was aged under 20 at marriage were from three and a half to over four times higher than the rate for all married women (2·1 per thousand) and for this marriage age-group the rates at all durations shown are about twice as high as the rates for marriages where the wife was aged 20-24 at marriage. Even at duration 20-24 the rate for the under 20 marriage age-group was 3·9 per thousand.

If the rates in Table P4 were to be maintained indefinitely, ignoring the effect of mortality, the following statement shows the numbers of marriages which at certain durations would have been dissolved out of a thousand marriages contracted at each of the marriage age-groups shown.

Age of wife		Duration	in years	
marriage	5	10	15	20
Under 20	13	51	81	101
20-24	7	26	42	54
25–29 30–34	6	21	33	41
35-39	6	21 20	34	

This statement illustrates again the higher risk of divorce of those marriages where the wife was aged less than 20 at the time of the marriage. It should be noted, however, that to combine these probabilities of divorce in this way is not a reliable guide to the future long-term prospects. These probabilities are analogous to life table probabilities in referring to the experience in a single calendar year of different cohorts. When sufficient data have been accumulated it will be possible to compare the experience of different cohorts at equal marriage durations and this should produce a more satisfactory guide to long-term prospects.

Marriage age of husband and wife in combination

Marriages dissolved and annulled during 1959 are classified in Table P3 of Part II by the marriage ages of husband and wife in combination. The absence of a cross classification by year of marriage prevents the calculation of wholly satisfactory divorce rates per thousand related marriages. A full cross classification was published in 1957 and will be repeated at intervals. Table XXIV is designed to indicate, if only approximately, the differentials involved. The denominators of the rates on which this table is based are the marriages which took place from 1925 to 1955 classified by age at marriage. Rates obtained by dividing the divorces of 1959 by denominators so obtained will exceed rates based on the number of surviving marriages (the correct exposed to risk) by the proportion by which the original marriages exceed those still in existence. Table XXIV shows the ratios of rates for the various combinations of marriage age to the rate for all marriage ages combined.

Table XXIV. Ratio of divorce rates per 1,000 related marriages, by marriage ages of husband and wife in combination, to rate for all marriage ages combined, 1959, England and Wales

Age of wife	Age of husband at marriage									
at marriage	All ages	Under 20	20-	25-	30-	35 and over				
		Persons	married in	the years 19	25–1955					
All ages	100	260	134	82	71	52				
Under 20 20– 25–	219 105 63	287 210 292	211 115 92	201 87 54	223 94 54	300 126 74				
30– 35 and over	60 41		129 167	63 82	51 71	57 34				

The main feature demonstrated by Table XXIV is the increased likelihood of divorce for younger age at marriage. This was true for both husbands and wives separately, the effect of a younger age at marriage being slightly more marked for husbands. There is a general tendency for the likelihood of divorce to be lowest when the two age-groups at marriage are the same and to increase on either side of this point, rising higher at the younger age of the other party. This effect results from the interplay of two factors; increasing likelihood of divorce for low age at marriage and also for widening difference in marriage age.

Previous marital condition by marriage age

The decrees made absolute during 1959 are analysed in Table P6 according to the previous marital condition of both parties in combination, cross classified by the age of the wife at the time of the marriage. In the 1957 Commentary this topic was discussed more fully with the aid of a further cross-classification by year of marriage which permitted the calculation of satisfactory rates based on the numbers of original marriages. The general picture shown for 1959 differs little from that of 1957 when it was shown that the likelihood of divorce tended to be lowest for first marriages, highest for marriages where the partners had been divorced previously, with those marriages where the partners had been widowed in an intermediate position.

Children of the marriage

Table P5 in Part II shows the dissolutions and annulments of marriage during 1959 according to the number of surviving children of the marriage. These children are the children alive at the date of the petition irrespective of their age and, as well as children of the dissolved marriage, may also include children legitimated by that marriage and any adopted children.

The total number of children involved in the 24,286 dissolutions and annulments in 1959 was 31,677, an average of 1·3 children per couple. The average number of children per couple fell steadily from 1·7 for those decrees where the wife was aged under 20 at marriage to 0·5 for the 35-39 marriage age-group and to 0·2 where the wife was aged 45 or over at marriage.

Table XXV. Percentage distribution of marriages dissolved or annulled, by number of children, 1959, England and Wales

Age of wife		Number of children									
at marriage	Total	0	1	2	3	4 and over					
All ages	100	33	30	21	9	7					
Under 20 20– 25– 30– 35 and over	100 100 100 100 100	21 32 43 55 79	32 30 30 26 13	26 22 18 12 5	12 9 6 5 2	9 7 3 2 1					

Table XXV shows the distribution of marriages dissolved or annulled during 1959 classified by the age of the wife at marriage according to the number

of children of the marriage. This table shows that among all such marriages a third were childless, 30 per cent had one child, another 30 per cent had two or three children and only seven per cent had four or more children. The proportion of childless marriages rises from just over a fifth where the wife was aged under 20 at marriage to nearly four fifths where the wife was 35 or over at the time of the marriage. The proportion of childless married women under 50 enumerated in the 1951 Census was 12 per cent in the under 20 marriage age-group, rising to 51 per cent for those married at age 35 and over. Allowing for the differences in the two sets of data, this suggests that divorce rates for childless couples may be about twice as high as the average for the marriage age-group concerned.

WIDOWHOOD

Table SS of Part II shows the number of marriages ended by the death of one partner, classified by the ages of the deceased and surviving partners. This table, however, is deficient in respect of those deceased persons about whose marital condition no statement was supplied when the death was registered. The incidence of this occurrence as a percentage of all deaths in 1959 is set out below for men and women separately:

Percentage of deaths where marital condition was not stated

Age at death	Men	Women
15 20- 25 30 35 40- 45- 50- 55 60- 65- 70- 75 and over	10 · 2 34 · 1 25 · 0 19 · 7 13 · 0 9 · 4 6 · 9 4 · 9 3 · 7 3 · 1 2 · 7 2 · 5 2 · 3	0·75 1·07 0·43 0·072 0·24 0·12 0·088 0·092 0·048 0·050 0·058 0·060 0·034
All ages	3.5	0.053

The "not stated" percentage is low for female deaths at all ages. The marital condition of deceased females could always be inferred from the former Rank or Profession (now Occupation) column of the death registers. For male deaths the "not stated" percentage is substantial, particularly at younger ages. The marital condition of deceased males is normally obtained under the Population (Statistics) Act, 1938, but this Act does not apply in the case of deaths registered on a coroner's certificate after an inquest—since the beginning of 1961 coroners have been asked to supply the information when it is available to them. This accounts for the general scale of omission of marital condition for males. Male deaths by accident, poisoning or violence, which normally involve an inquest, amounted in 1959 to:

62	per	cent	of	all	deaths	of	males	aged	20-24
47	22	99	,,	99	,,	,,	22		
	29				,,	,,	22	,,	30–34
23	9.9	,,,	,,	29	,,,	,,	,,	,,,	35–39

A rateable distribution of the "not stated" may lead to some bias in that such persons are likely to be single and to be concentrated in the younger ages, but the amount of such a bias will be small particularly in relation to the "not stated" elements consequent on registration on a coroner's certificate. It is possible that the rates per thousand married women in Table XXVI are slightly over estimated.

Table XXVI. Widowhood rates, 1955 to 1959, England and Wales

1955	1956	1957	1958	1959	Age of sur- viving spouse	1955	1956	1957	1958	1959
		aths of v			15 and			hs of hus 00 marrie		n
6.9	6.8	6.8	6.7	6.7	over	13.9	14.0	14.0	14.1	14.0
0·5 0·6 0·9 1·2	0·5 0·6 0·8 1·2	0·4 0·6 0·8 1·3	0·4 0·6 0·7 1·2	0·4 0·6 0·7 1·1	15- 25- 30- 35-	0·8 1·1 1·6 2·7	0·8 1·1 1·6 2·7	0·9 1·1 1·5 2·6	0·8 1·0 1·5 2·6	0·8 1·0 1·5 2·6
1·8 3·0 4·8 7·4	1·8 2·9 4·5 7·4	1·9 2·9 4·6 7·5	1·8 2·8 4·4 7·1	1·7 2·7 4·3 7·2	40– 45– 50– 55–	4·5 7·9 13·6 21·6	4·5 7·7 13·1 22·0	4·6 7·9 13·2 21·9	4·6 7·7 13·0 21·5	4·5 7·7 13·0 21·4
12·0 19·1 30·7	11 · 8 19 · 0 30 · 4	11 · 5 18 · 3 29 · 4 56 · 0	11 · 4 18 · 3 29 · 4	11 · 2 18 · 2 28 · 7	60- 65- 70- 75 and over	33·0 49·3 70·9	33 · 3 49 · 8 72 · 3	33·0 49·9 69·8	33 · 1 49 · 9 72 · 0	32·3 49·0 70·9

Table XXVI relates to the calendar years 1955 to 1959 inclusive. These widowhood rates differ from ordinary death rates in being based on a selected population which excludes those persons whose health has not permitted them to marry. Moreover, the deaths which generate these rates do not occur at the specified ages but at ages distributed around a mean that is a little older than that of the married women whose husbands die (and conversely a little younger than that of the married men whose wives die). This difference is caused by the age differential at marriage. Nevertheless, the rates given in Table XXVI reflect the main variations in mortality rates by sex and age and also the scale of annual changes. After allowance has been made for the above age differences, the death rates of husbands per thousand married women are higher in every single age-group than, and in general persist at about twice the rate for, wives per thousand married men. The proportion of married women who are left widows between 50 and 60 is about three times that of married men who become widowers in their fifties.

The general level of the widowhood rates is of much more importance than the small differentials within their main structure. The chance that a married woman aged 25 will become a widow before she is 45 is about twice the chance that she will be dead at that age. Nevertheless, perhaps the outstanding points demonstrated by Table XXVI are that the current level of mortality at ages under 45 is so low that widowhood is not seriously depleting the younger married population and further that death is of comparatively low incidence among married women in the reproductive age-groups.

BIRTHS

Live births

The number of live births which occurred in England and Wales in 1959, 748,501, was the highest since 1948; it was 1·1 per cent higher than in 1958. This compares with increases of 3·3 per cent and 2·4 per cent between 1956 and 1957 and 1957 and 1958 respectively. The birth rate per 1,000 population was maintained at the level reached in 1958 which was itself the highest since 1949. The numbers of births since the 1851-60 period classified by legitimacy are shown in Table XXVII.

Table XXVII. Live births and birth rates by legitimacy, 1851 to 1959, England and Wales

Period	Number of live births	Live birth rate per 1,000 population	All live births per 1,000 women aged 15-44	Legitimate live births	Legitimate live births per 1,000 married women aged 15-44	Illegitimate live births	Illegitimate live births per 1,000 unmarried women aged 15-44
1	2	3	4	5	6	7	8
1851-1860	6,471,650	34·1	144·9	6,048,479	281 · 0	423,171	18·3
1861-1870	7,500,096	35·2	151·0	7,043,090	287 · 3	457,006	18·2
1871-1880	8,588,782	35·4	153·6	8,161,584	295 · 5	427,198	15·1
1881-1890	8,890,238	32·4	138·7	8,471,116	274 · 6	419,122	12·6
1891-1900	9,155,153	29·9	122·7	8,773,351	250 · 3	381,802	9·6
1901-1910	9,298,209	27·2	109·0	8,927,791	221 · 6	370,418	8·2
1911-1920	8,096,222	21·8	87·7	7,706,457	173 · 5	389,765	8·1
1921-1930	7,129,070	18·3	73·9	6,818,295	143 · 6	310,775	6·3
1931-1935	3,022,864	15·0	61·7	2,891,469	115 · 2	131,395	5·5
1936–1940	3,041,652	14.7	60.9	2,913,834	107.3	127,818	5.6
1941–1945	3,346,343	15·9	69·3	3,116,516	.105·4	229,827	11·4
1946–1950	3,904,666	18·0	80·9	3,690,413	122·5	214,253	11·7
1951–1955	3,377,098	15·2	72·5	3,216,521	105·0	160,577	10·1
1956	700,335	15·6	77·0	666,801	108·2	33,534	11·4
1957	723,381	16·1	80·0	688,819	111·5	34,562	12·1
1958	740,715	16·4	82·1	704,541	113·9	36,174	12·8
1959	748,501	16·4	83·0	710,340	114·7	38,161	13·5

The birth rate per 1,000 population does not permit a true appreciation of fertility trends and, as a first step to a more illuminating analysis, births may be related to the number of women of childbearing age (conventionally taken as 15-44) instead of to the total population and, as a further step, the legitimate and illegitimate births may be related to the married and unmarried women respectively in the 15-44 age range; rates of both these forms are shown in columns 4, 6 and 8 respectively of Table XXVII.

In 1959 the birth rate per 1,000 women aged 15-44 showed a further increase; this was in contrast to the lack of change in the crude birth rate which was depressed by the slight fall in the proportion of women aged 15-44 in the population. The legitimate birth rate in 1959 was 7 per cent above the rate for 1936-40 although the number of legitimate live births in 1959 was 22 per cent higher than the average annual number for that period, the difference being due to the larger proportion of women in this age range who are now married.

Conversely, while the illegitimate birth rate in 1959 was 2.4 times the rate for 1936-40 the number of illegitimate births was only 1.5 times as many, this difference being due to the smaller number of unmarried women now in this age-group.

Incomplete statement at birth registration

The birth statistics now under consideration are obtained by the analysis of the information given at birth registration. These annual statistics are slightly incomplete due to an occasional failure to obtain a record of the mother's age, duration of marriage, or number of previous children. The proportion of "not stated" cases of various types is shown in Table QQ for women married once only. For all types of information combined this proportion amounted to one half per cent in 1959. As no severe bias is expected in this small number of cases they have been distributed proportionately among the "stated" in Tables AA, HH, II, LL, and MM as it is considered that most users will find this form of presentation more convenient.

Birth occurrences and registration time lag

The statutory period allowed for registration of either a live birth or a still-birth is 42 days and there has generally been an appreciable time lag between the occurrence of a birth and its registration. In the past the time lag was found to decrease markedly after the introduction of an incentive to register earlier, for example, by the dependence of the issue of Family Allowances upon birth registration. Conversely, registration has become more tardy whenever the incentives have been removed or have become less compelling. In 1959 the average time lag between the occurrence and the registration of a birth was about thirteen days.

The importance of time lags from the statistical aspect is their influence on the difference between the number of births registered in a period and the number occurring in the same period. Occurrences are usually the more appropriate statistics for the measurement of fertility, but figures for registrations are available sooner. The difference between the two is influenced by the time lag in two ways. A difference will occur, even though the time lag be constant, if birth incidence is changing; and also, even though the birth incidence be constant, if the time lag is changing. In practice both factors operate. The combined effect of these factors may be measured by the ratio of occurrences to registrations, which in 1959 was 0.9975.

Tabulation basis

Fertility tabulations may be made on the basis of either live births or maternities, and which is more convenient depends upon the use to which the tabulations are put. The tables in Part II distinguish so many characteristics that it is neither practical nor economic to provide completely parallel classifications of births and maternities. Full analyses by legitimacy and mother's age are given for both live births and maternities (Tables AA to FF and TT), but the legitimate fertility tabulations by duration of marriage or number of previous children are restricted to maternities (Tables HH, II, KK, LL, MM and QQ). The legitimate fertility rates by age of mother and year and duration

of marriage (Table OO) were in terms of maternities until 1955 but since 1956 they have been converted to a live birth basis by ratios of the kind shown in Table XXVIII. Table PP (mean family size by year of marriage) has always related to live births.

Maternities are slightly greater in number than live births as the stillbirths included in the former exceed the multiple births excluded. The excess is small and the maternity statistics can be converted to live birth figures with enough accuracy for most purposes by means of the appropriate ratios which are shown for 1959 in Table XXVIII.

Table XXVIII. Ratio of legitimate live births to legitimate maternities by age of mother at maternity, 1959, England and Wales

	Age of mother at maternity										
All ages	Under 20	20-	25-	30-	35-	40 and over					
0.991	0.989	0.992	0.994	0.993	0.986	0.967					

The tables distinguishing duration of marriage or numbers of previous children (Tables HH to QQ) are confined to women married once only. Comparable statistics for women married more than once and for all married women, both classified by duration of *current* marriage, relating to 1952, were published in the 1955 Commentary where ratios comparing the three sets of fertility rates were also given (pages 30-33).

Illegitimate births and pre-marital conceptions

Among the 755,294 maternities which occurred in 1959, 5·1 per cent (38,792) were illegitimate. Tables B and C in Part II and Table XXVII contain serial records of illegitimate births since 1851. Numbers of illegitimate maternities since 1938 are shown in column 2 of Table XXIX and column 3 shows the numbers of pre-maritally conceived legitimate maternities. The number of pre-maritally conceived legitimate maternities has been taken as approximately equivalent to those at marriage durations under 9 months (8½ months before 1952). The combined proportion of extra-maritally conceived maternities is shown in column 5; at about one eighth it has been slightly lower in recent years than in 1938-39.

Table XXIX. Illegitimate maternities and pre-maritally conceived legitimate maternities, 1938 to 1959, England and Wales

	Illegitimate	Pre-maritally conceived	Total matern extra-m	Percentage of extra-mari- tally conceived maternities	
Year	maternities	legitimate maternities*	Numbers	Percentage of all maternities	legitimated by marriage of
1	2	3	4	5	6
1938 1939 1940–1944† 1945–1949† 1950 1951 1952 1953 1954 1955	27,440 26,569 39,542 49,466 35,816 33,444 33,088 33,083 32,128 31,649	64,530 60,346 43,146 52,557 54,188 50,477 50,740 50,266 50,901 50,638	91,970 86,915 82,688 102,023 90,004 83,921 83,828 83,349 83,029 82,287	14·4 13·8 12·4 13·0 12·8 12·3 12·3 12·1 12·2 12·2	70 · 2. 69 · 4 52 · 2. 51 · 5 60 · 2. 60 · 1 60 · 5 60 · 3 61 · 3 61 · 5
1956 1957 1958 1959	34,113 35,098 36,787 38,792	54,895 56,203 56,581 57,638	89,008 91,301 93,368 96,430	12·6 12·5 12·5 12·8	61 · 7 61 · 6 60 · 6 59 · 8

^{*}From 1952 onwards the figures relate to women married once only.

†Annual averages.

Legitimate maternities at these short durations and illegitimate maternities can usefully be considered together as they both relate to mothers who were unmarried at the time of conception. During and immediately after the Second World War the numbers of illegitimate maternities and pre-maritally conceived legitimate maternities tended to move in opposite directions, leaving the total number of extra-maritally conceived maternities relatively stable. This feature has been less well marked in recent years but is still true for the period since 1938 taken as a whole.

In Table XXX the extra-maritally conceived maternities have been related to the population at risk of producing such maternities. This is the average number of unmarried women between the beginning of April in the stated year and the same date of the previous year. As an approximation, the number of unmarried women at the end of September of the previous year has been estimated and used as the exposed to risk. These women have, however, been classified by their age at maternity in the usual way.

Table XXX. Extra-maritally conceived maternities per 1,000 unmarried women at risk (see text), 1938 and 1952 to 1959, England and Wales

Age of mother	1938	1952-54 average	1955	1956	1957	1958	1959
15- 20- 25- 30- 35- 40-	11 · 8 32 · 6 24 · 5 15 · 1 10 · 4 4 · 3	15·5 42·5 37·3 30·7 18·0 6·1	16·5 44·0 39·5 30·8 18·6 6·5	19·0 48·6 42·2 34·3 20·4 6·8	20·2 50·3 45·4 36·8 21·9 7·1	21 · 2 52 · 2 47 · 4 37 · 9 22 · 0 7 · 3	21 · 7 54 · 2 50 · 5 40 · 8 22 · 1 7 · 9
15–44	18.6	25 · 3	26 · 1	28 · 9	30 · 3	31 · 4	32.5
Ratio to 1938 Crude	- 1 • 00	1 · 36	1 · 40	1 · 55	1.63	1.69	1 · 75
Standardised by age	1 · 00	1 · 41	1 · 47	1 · 63	1 · 71	1 · 78	1 · 84

The rates for all extra-maritally conceived maternities are highest for women aged 20-24 followed by those in the 25-29 age-group. The separate age rates for illegitimate maternities and pre-maritally conceived legitimate maternities in 1959 are shown in the following statement:

Group of		Age at maternity									
maternities	Under 20	20-	25-	30-	35-	40-44					
Illegitimate	5 · 78	16.72	28 · 14	29 · 45	17 · 10	6.41					
Pre-maritally conceived legitimate	15.89	37 · 46	22 · 40	11.33	5.00	1 · 51					

The rates for the pre-maritally conceived legitimate maternities rise to a sharp peak in the 20-24 age-group and then decline rapidly with age. The rates for illegitimate births on the other hand rise and fall more gradually with a lower maximum between 25 and 34 and by the 40-44 age-group the rate is more than four times that of the pre-maritally conceived legitimate maternities.

The rates for all extra-maritally conceived maternities are well above the pre-war level, a rise which has not been paralleled in the total numbers of such births; the fall in the proportion of unmarried persons in the younger agegroups of the population being responsible for the rise in the rates.

If the incidence of pre-marital conceptions is measured conventionally by the legitimate maternity rate for durations under 9 months, Table KK shows that the incidence is highest at ages under 20 where the maternity rate for the first 9 months is as high as for the remaining quarter of the first year. This rate then falls steeply to the 20-24 age-group and more slowly thereafter.

A more detailed discussion of this topic appeared on pages 19-21 of the 1955 Commentary.

Legitimate births and fertility

Age of mother and duration of marriage

The total number of legitimate births and the corresponding rates per 1,000 married women aged 15-44 irrespective of age of mother and duration of marriage were shown in Table XXVII. As fertility declines with advancing age of mother and lengthening duration of marriage, these factors must be taken into account, for a proper assessment.

Among the legitimate maternities which occurred in England and Wales in 1959, 5 per cent were to mothers aged under 20, 62 per cent were to mothers aged between 20 and 30, 30 per cent to mothers aged between 30 and 40 and 3 per cent to mothers aged 40 and over. The distribution in five year age-groups is shown in the following statement:

Legitimate maternities in each age-group per 1,000 legitimate maternities at all ages	Age of mother at maternity									
	All ages	Under 20	20-24	25–29	30–34	35–39	40-44	45 and over		
	1,000	54	305	317	194	104	24	2		

A similar distribution of legitimate maternities in England and Wales during 1959 by duration of marriage shows that 56 per cent of all legitimate maternities in 1959 were to mothers whose marriage had lasted less than 5 years (13 per cent of legitimate maternities were to mothers who had been married for less than a year) and 84 per cent to mothers married for less than 10 years.

Legitimate maternities	Marriage duration in completed years									
legitimate maternities	All lurations	0	1	2	3	4	5–9	10–14	15–19	20+
at all durations	1,000	134	122	112	102	90	280	112	39	9

In Table II the legitimate maternities to women married once only are classified by both age of mother at maternity and the duration of her marriage. Using the mean numbers exposed to risk by current age and marriage duration published in Table JJ, corresponding rates by current age and duration of marriage have been computed and published in Table KK. The rates shown in Table KK are summarised for recent years in Table XXXI which shows in general the typical pattern of decline with increasing age, as well as with each year of duration after the first. The apparent exception at the longest durations within some of the lines, mainly that for the age-group under 20, is due to the fact that as it approaches the right-hand edge of the table the group becomes confined to fewer single years of age, corresponding to the very youngest marriage ages. In this part of a detailed table by single years of age, fertility rates change more rapidly with marriage age than with duration, and the number of women at the individual ages making up the group increases very quickly with age.

Table XXXI. Legitimate maternity rates for women married once only by age and marriage duration, 1952 to 1959, England and Wales*

					Marri	age dui	ration (c	complete	ed years)		
Ages of married women at maternity	Year	All dura- tions	0	1	2-	3-	4-	5–9	10-14	15–19	20-24	25 and over
All ages under 50	1952–55 1956 1957 1958 1959	·088 ·092 ·094 ·096 ·097	·280 ·292 ·300 ·308 ·312	·260 ·267 ·274 ·279 ·281	·222 ·230 ·237 ·245 ·252	·203 ·215 ·220 ·227 ·229	·180 ·192 ·201 ·207 ·207	·115 ·122 ·127 ·131 ·132	·048 ·051 ·053 ·054 ·054	·019 ·020 ·021 ·021 ·021	·006 ·006 ·006 ·005 ·006	·001 ·001 ·001 ·001 ·001
Under 20 {	1952–55 1956 1957 1958 1959	·415 ·406 ·408 ·415 ·416	·460 ·454 ·453 ·465 ·468	·323 ·314 ·329 ·332 ·330	·339 ·315 ·317 ·317 ·331	·354 ·333 ·356 ·324 ·342		Southern Sou			=======================================	manual ma
20-24 {	1952–55 1956 1957 1958 1959	·253 ·259 ·263 ·267 ·267	·272 ·277 ·281 ·286 ·288	·278 ·283 ·288 ·291 ·292	·246 ·250 ·254 ·263 ·269	·237 ·245 ·248 ·250 ·251	·222 ·229 ·234 ·239 ·232	·205 ·217 ·218 ·218 ·213		=		
25-29 {	1952–55 1956 1957 1958 1959	·171 ·180 ·186 ·189 ·188	·237 ·247 ·265 ·270 ·270	·246 ·255 ·259 ·266 ·268	·216 ·226 ·235 ·239 ·248	·203 ·216 ·222 ·229 ·230	·187 ·199 ·211 ·215 ·217	·141 ·152 ·157 ·160 ·159	·111 ·113 ·118 ·118 ·121	=		
30-34 {	1952-55 1956 1957 1958 1959	·099 ·100 ·103 ·104 ·105	·230 ·247 ·257 ·253 ·256	·238 ·245 ·255 ·260 ·268	·199 ·210 ·218 ·224 ·228	·181 ·190 ·192 ·209 ·209	·164 ·173 ·180 ·186 ·189	·107 ·110 ·114 ·118 ·119	·068 ·066 ·069 ·071 ·072	·069 ·063 ·062 ·060 ·061		
35–39 {	1952-55 1956 1957 1958 1959	·049 ·050 ·051 ·050 ·049	·167 ·175 ·184 ·179 ·188	·183 ·195 ·200 ·193 ·207	·148 ·152 ·158 ·165 ·170	·133 ·144 ·144 ·145 ·150	·124 ·132 ·130 ·130 ·135	·079 ·082 ·085 ·084 ·084	·042 ·045 ·046 ·046 ·046	·035 ·035 ·035 ·035 ·033	·041 ·035 ·036 ·035 ·033	Section Sectio
.40-44 {	1952~55 1956 1957 1958 1959	·015 ·014 ·014 ·013 ·013	·054 ·054 ·067 ·054 ·067	·065 ·075 ·068 ·071 ·074	·053 ·059 ·056 ·058 ·059	·049 ·049 ·048 ·049 ·057	·042 ·042 ·044 ·042 ·046	.029 .030 .031 .030 .031	·017 ·017 ·018 ·018 ·017	·012 ·012 ·012 ·012 ·011	·011 ·010 ·010 ·009 ·009	.010 .008 .008 .008 .007
45-49 {	1952–55 1956 1957 1958 1959	·001 ·001 ·001 ·001 ·001	·004 ·003 ·001 ·005 ·004	·003 ·004 ·004 ·003 ·004	·004 ·005 ·003 ·004 ·006	·003 ·003 ·003 ·005 ·005	·003 ·002 ·002 ·003 ·004	·002 ·002 ·002 ·002 ·003	·002 ·001 ·002 ·002 ·002	·001 ·001 ·001 ·001 ·001	·001 ·001 ·001 ·001 ·001	·001 ·001 ·001 ·001 ·001

^{*}In calculating these rates the few maternities to women whose stated age and marriage duration implied an age at marriage below the legal minimum of 16 have been excluded.

Table XXXI indicates that between 1958 and 1959 there was in general a rise in maternity rates for all ages under 45 except at some of the longer durations within each age-group. Although the number of maternities involved was relatively small the rates show a proportionately greater rise for those mothers aged over 30 at short marriage durations.

Cohort analysis

An alternative classification of legitimate maternities by age at marriage and year of marriage is given in Table MM (which also shows the number of previous liveborn children); the mean numbers exposed to risk are shown in Table NN and the corresponding rates have been computed and published in Table OO having been converted from maternity rates to live birth or fertility rates. Tables NN and OO relate to the integral duration intervals which ended in 1958-59; e.g. duration 2 completed years covers the interval from the second wedding anniversary (falling in 1958) to the third anniversary (falling in 1959).

A proper appreciation of fertility trends needs more than the examination of such annual fertility rates. It is necessary to take a group of people, such as those married in a particular period, and to follow them through their reproductive lives, either by detailed records or by statistical computation which will approximate to the same results. Such a group is generally called a cohort, and the study of fertility records in this form, cohort analysis. In this country the term cohort is reserved for those who married in the same time interval and those born in the same period are referred to as a generation. Cohort analysis can help to avoid the misleading impression which may be made by the births of any one period such as a year when either family size or the timing of births is changing.

Tables of mean family sizes and fertility rates for women married once only have been computed for each marriage cohort since 1920 and appear in Appendix A (pages 240-251). The mean family size tables (Tables 1 (a) to 1 (g)) show the average number of liveborn children after each single year of marriage duration separately for each age at marriage group. The set of fertility rate tables (Tables 2 (a) to 2 (g)) show the average annual increments by which the mean family size has been built up. The two sets of tables have been produced each year by using the lines of Tables OO and PP as diagonal additions to data produced by linking data from the 1946 Sample Family Census of the Royal Commission on Population, the 1951 Census of England and Wales and the annual vital registration records.*

The tables in Appendix A show completed family sizes for marriage cohorts from 1920 to 1929 and these figures are repeated in Table XXXII with figures for earlier cohorts taken from the data obtained at the 1911 Census of England and Wales and the 1946 Family Census.

^{*}For the technical problems involved and the methods used see Census 1951, England and Wales: Fertility Report, Chapter IV, Appendix I. H.M.S.O., 1959, price £4 10s. 0d. net.

Table XXXII. Mean ultimate family size of marriage cohorts since 1861, all marriage ages under 45, England and Wales

Calendar year of marriage	Mean ultimate family size (actual)	Calendar year of marriage	Mean ultimate family size (actual)	Calendar year of marriage	Mean ultimate family size projected using fertility rates for		
			(actual)		1951–55	1958–59	
1861–69	6.16	1910 1911	2.95	1930	2.09	2.09	
1871	5 · 94	1912	2·83 2·80	1931 1932	2·08 2·08	2·08 2·08	
1876	5 · 62	1913 1914	2·81 2·73	1933 1934	2·06 2·04	2·06 2·04	
1881	5 · 27	1915 1916	2·43 2·43	1935 1936	2.04	2.04	
1886	4.81	1917	2.44	1936	2·01 2·03	2.01	
1890–99	4.13	1918 1919	2·45 2·57	1938 1939	2·06 2·05	2·06 2·04	
1900–09	3 · 30	1920 1921 1922 1923 1924	2·47 2·38 2·28 2·23 2·21	1940 1941 1942 1943 1944	2·00 2·04 2·08 2·14 2·18	1·99 2·03 2·07 2·13 2·17	
		1925 1926 1927 1928 1929	2·17 2·14 2·09 2·08 2·08	1945 1946 1947 1948 1949	2·18 2·19 2·20 2·21 2·21	2·16 2·17 2·19 2·20 2·21	
				1950 1951 1952 1953 1954	2·30 2·20 2·22 2·24 2·24	2·30 2·22 2·26 2·31 2·32	

The women married since 1930 have not yet all completed their childbearing and to estimate their mean ultimate family size, projections have been made from the position reached in 1959. The first projection shown in Table XXXII assumes that future fertility rates by marriage age and duration will be equal to the mean of those experienced in 1951-55; the second uses similar rates equal to the mean of those experienced in 1958-59. The 1958-59 figures when compared with the 1951-55 figures are lower for marriage cohorts before 1949 and higher for more recent cohorts. This reflects the differences in the two sets of duration fertility rates as illustrated by the 20-24 age-group shown below.

Sums of fertility rates

Marriage age 20-24

Duration of marriage (completed years)	Mean 1951–55	1958–59	Difference		
All durations	2 · 175	2·379	+0.204		
Before marriage	0.033†	0.033†	()		
0-4 5-9 10-14 15-19 20 and over	1·132 0·596 0·273 0·114 0·027	1·238 0·691 0·285 0·112 0·020	+0·106 +0·095 +0·012 -0·002 -0·007		

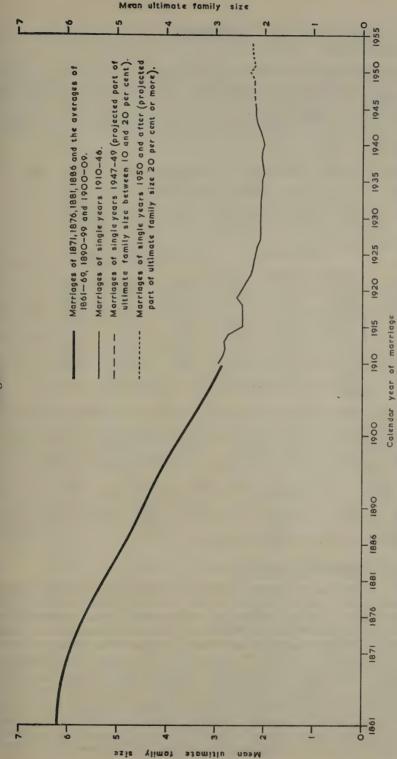
†Assumed equal to marriages of 1945.

For the 20-24 age-group the 1958-59 rates are higher than the 1951-55 rates at durations under 15, but are slightly lower for the longer marriage durations. The element of projection (though not of course the margin of error) amounts to between 10 and 20 per cent of the total for marriages of 1947-49 and to 20 per cent or more for marriages since then, the figures gradually becoming more speculative. Whichever assumption is used the projected mean ultimate family sizes are unlikely to be appreciably in error for marriages of 1944 or earlier. The present increased flow of births has not been established long enough to say whether there is an upward trend in family size or whether this flow merely reflects a change, which may well be temporary, in the timing of births within marriage.

It is necessary to bear in mind that the rise in ultimate family size for the most recent cohorts may be a product of the method of projection which implicitly assumes, by the use of current fertility rates for all durations, that the rates at longer durations will be unaffected by the high fertility at short durations.

Diagram 4 shows the mean ultimate family size of marriage cohorts since 1861, using the assumptions based on 1951-55 fertility rates for the recent cohorts.





Mean ultimate family size of marriage cohorts since 1861, all marriage ages under 45, England and Wales

Replacement

Reproduction rates

The gross reproduction rate is a measure of annual fertility which is standard-ised for the detailed sex-age composition of the population. It is calculated by summing the female age fertility rates (live female births per woman in each age-group) multiplied by the width of the age-groups used. Values of the gross reproduction rate for the period 1841 to 1959 are shown in Table XXXIII.

Table XXXIII. Gross and net reproduction rates, 1841 to 1959, England and Wales

Year	G.R.R.	N.R.R.	Year	G.R.R.	N.R.R.
3-3	ear averag	es		vidual year inual avera	
1841 1851	2.237	1 · 349			
1861	2.204	1 · 427	1938 1939–49	0·897 1·031	0·805 0·945
1871	2.356	1.511	1950-54	1.061	1.015
1881 1891	2·252 1·973	1 · 511 1 · 369	1955 1956	1.077	1 · 038 1 · 107
1901	1 · 702	1 · 238	1957	1 · 190	1 · 149
1911 1923	1 · 428 1 · 153	1·121 0·966	1958 1959	1 · 221	1.182
1933	0.862	0.756	1939	1.230	1.190
				MAN TO THE PARTY OF THE PARTY O	

The net reproduction rate (also shown in Table XXXIII) differs from the gross rate by being discounted for the mortality of the period. At one time the N.R.R. was widely used, not as an index of the births and deaths of the year but as a measure of the implications of current family building habits and mortality for the ultimate replacement of the population. In this sense it is now discredited, because it would imply unrealistic and even inconsistent assumptions, at least in societies where family limitation is practised. The N.R.R. is subject to many of the temporary influences which affect annual numbers of births. The figures are shown here for the convenience of those who like to keep serial records in this form.

Marriage standardised replacement rate

The conventional net reproduction rate described above can be improved by taking into account marriage as well as fertility and mortality. Even reproduction rates refined in this way, if they relate to a year or similar period, are subject to distortions and fluctuations when the time-pattern of family building is changing though ultimate family size may be constant.

Nevertheless, it is possible to calculate a hypothetical replacement rate assuming that a given set of marriage, fertility, widowhood and divorce rates will continue. If cohort analysis indicates that such rates represent a stable pattern then such replacement rates may be taken to summarise the habits of the generations and cohorts currently passing through the reproductive period. In the *Fertility Report* of the 1951 Census a generation replacement rate was calculated by multiplying the age-duration fertility rates for 1951-55

by the population of women in a female nuptiality table for England and Wales which was specific by duration of marriage. This gave a female generation replacement rate, according to female nuptiality, of 1.01.

If replacement rates are to be constructed on several different assumptions or more frequently, a less laborious method than that outlined above is needed. An abridged nuptiality table was constructed to produce the number of marriages in five year age-groups from an original generation of 100,000 females. These numbers of married women were then multiplied by the mean ultimate family size appropriate to each marriage age to give the expected number of live births in the second generation. Multiplying this total by the sex ratio at birth produced the expected number of female births and hence a marriage standardised replacement rate. An abridged calculation of this kind gives, for the rates of 1951-55, results very close to those of the complete calculation (in fact 1.016) but this is only because the omitted elements such as curvature of marriage rates, mortality between 15 and 50, dissolution of marriages by death, widowhood and divorce and the differential fertility of the remarried largely compensate for each other.

The above marriage standardised replacement rate was calculated on the assumption that some stability had been reached in both marriage and fertility rates. Since 1956, however, marriage rates at younger ages have continued to rise and fertility rates have also risen. Although it is too soon to say whether these changes are only temporary fluctuations which will have little effect on ultimate replacement, it is interesting to repeat the above calculation using an abridged nuptiality table for 1959 and mean ultimate family sizes based on the fertility rates of 1958-59 in order to see the effect of the continued operation of these rates. The outline of this calculation is shown in the statement below.

Age at marriage	Marriages in 1959 abridged nuptiality table from an original generation of 100,000 females	Mean ultimate family size based on 1958-59 fertility rates	Expected live births in second generation
15–19 20–24 25–29 30–34 35–39 40–44	24,116 58,469 8,414 2,186 690 392	3 · 255 2 · 379 2 · 054 1 · 471 0 · 764 0 · 239	78,498 139,098 17,282 3,216 527 94
	94,267	Expected live Expected female live	

This calculation produces a replacement rate of 1·16. If male marriage rates are used instead of female rates the effect would be to increase the female based replacement rate by about 3 per cent. In short, in a population which consistently experiences the present high proportions marrying and low mortality, the family size indicated by current trends would be sufficient for replacement with a margin to spare. It should be emphasised that these figures result from a hypothetical calculation summarising current rates which have not yet been experienced throughout the lifetime of any single generation and represent a more favourable experience than that of the generations now nearing completion of their families. This is particularly true for mortality.

Generation replacement rates

The replacement rate of actual generations since 1838-43 were shown and discussed in the 1956 Commentary (pages 23-24). The number of female births to the 1838-43 generation of women, the last before the spread of family limitation, was about 40 per cent above replacement level. Then followed a decline in the replacement rate until, with the 1903-08 generation, it was 30 per cent short of the number needed for replacement. Since then the rate has been rising and, if present trends continue, will reach replacement with the generation born in 1943-48 or a little earlier if marriage rates continue above the 1951-55 level.

The rate of the rise has been slowing down and there are no clear indications at present that it will carry the rate very much higher. The greater part of the recovery in the level of the replacement rates since the 1903-08 generation has been due to improved mortality (mainly in infancy) and higher marriage rates, and in both these respects there is now limited scope for further improvement.

Birth order

The legitimate maternities of the year to women married once only are tabulated by birth order as well as mother's age at maternity in Table HH. In 1959, 39 per cent were first births, 31 per cent second, 15 per cent third and 15 per cent fourth or later births, a distribution which differs little from that of earlier years. In Table LL the first maternities among these are further subdivided by duration of marriage.

Table MM gives a threefold classification by mother's age at marriage. duration of marriage and birth order and makes it possible to investigate the share of births of different orders in the recent rise in fertility rates. True birth order rates would relate, say, the second maternities of mothers married in 1953 at age 20-24 to the estimated number of women in that group who have so far had one child. It has not so far been possible to carry out the considerable work of making a series of such estimates in line with those of mean family size in the 1955 Commentary. In the meantime a series of rates has been computed relating the live births* of each calendar year from 1952 to 1959, classified by birth order, to all the married women of the same marriage year and marriage age as the mothers concerned. In effect the marriage age/ cohort rates of Table OO (style of 1952-55, but live births) have been subdivided by birth order in proportion to Table MM. The rates for 1959 are shown in Appendix B on pages 252-253. The rates for all ages under 45 combined are means of the age rates weighted by the original number of spinster marriages in each cohort and age-group and index numbers of these all-ages rates are shown in Table XXXIV for durations up to 15 and for duration 20. Figures are not shown for 1953-56 which follow the pattern established by the figures shown in Table XXXIV, but figures for these years appeared in the 1957 Commentary, pages 21-23.

^{*}Maternities converted by the appropriate coefficients.

Table XXXIV. Ratios of fertility rates by birth order (live births per woman married once only, irrespective of parity) to those of 1952 taken as 100: 1952 and 1957 to 1959, England and Wales

All marriage ages under 45

Mean	Calendar	Calendar	marriag		nber of pi	evious ch	ildren	
marriage duration (years)	year of marriage	year of maternity	Total	0	1	2	3	4 and over
1/3	1952 1957 1958 1959	1952 1957 1958 1959	100 110 117 116			100 110 117 116		
1	1951 1956 1957 1958	1952 1957 1958 1959	100 109 110 111	100 108 108 109		1 1	00 28 38 46	
2	1950 1955 1956 1957	1952 1957 1958 1959	100 102 106 106	100 98 98 98	100 111 120 124		100 98 117 122	<i>;</i>
3	1949 1954 1955 1956	1952 1957 1958 1959	100 109 112 117	100 110 109 110	100 111 117 124		100 100 106 116	
4	1948 1953 1954 1955	1952 1957 1958 1959	100 114 117 115	100 123 119 113	100 113 117 117	100 107 115 116	10	00 98 01 07
5	1947 1952 1953 1954	1952 1957 1958 1959	100 117 121 124	100 140 142 140	100 114 118 119	100 107 114 121		00 07 12 21
6	1946 1951 1952 1953	1952 1957 1958 1959	100 117 120 120	100 156 155 154	100 116 118 118	100 106 111 112	100 98 106 110	100 101 111 108
7	1945 1950 1951 1952	1952 1957 1958 1959	100 125 119 121	100 159 157 156	100 119 115 113	100 115 111 115	100 120 112 117	100 141 129 132
8	1944 1949 1950 1951	1952 1957 1958 1959	100 114 127 120	100 154 173 171	100 110 124 115	100 105 117 112	100 111 126 115	100 123 130 121
9	1943 1948 1949 1950	1952 1957 1958 1959	100 111 112 123	100 131 135 145	100 104 105 116	100 104 103 115	100 108 110 121	100 131 131 144

Table XXXIV-continued

Mean marriage	Calendar	Calendar year		Nun	nber of pro	evious chi	ldren	
duration (years)	of marriage	of maternity	Total	0	1	2	3	4 and over
10	1942	1952	100	100	100	100	100	100
	1947	1957	105	111	91	96	113	141
	1948	1958	109	121	96	102	118	136
	1949	1959	109	124	92	101	116	147
11	1941	1952	100	100	100	100	100	100
	1946	1957	103	89	83	97	112	139
	1947	1958	107	100	89	101	115	140
	1948	1959	108	112	89	101	113	144
12	1940	1952	100	100		100	100	100
	1945	1957	105	87		99	109	135
	1946	1958	105	85		97	113	142
	1947	1959	108	88		100	114	145
13	1939	1952	100	100		100	100	100
	1944	1957	106	97		102	107	119
	1945	1958	104	96		101	107	111
	1946	1959	106	95		101	104	124
14	1938 1943 1944 1945	1952 1957 1958 1959	100 115 114 113	11 10	100 113 105 109		100 118 120 116	100 109 110 112
15	1937	1952	100	100		100	100	100
	1942	1957	116	131		130	120	99
	1943	1958	117	118		129	120	109
	1944	1959	117	110		124	123	113
20	1932 1937 1938 1939	1952 1957 1958 1959	100 83 87 97			100 83 87 97	,.	

When the births are so finely subdivided there are bound to be many small numbers subject to chance fluctuations and in Table XXXIV births of different orders have therefore been grouped together in such a way that the corresponding cells in Table MM contain at least 1,000 maternities. Even so there are quite a few cells where no significance can be attached to very small movements in the index numbers.

Table XXXIV shows that the rise in births in 1959 compared with 1958 affected most durations up to 20 years. The pattern of changes between these years in birth orders is rather irregular but there appears to be a tendency for the ratios for higher orders at a given duration to rise more than the lower birth order ratios.

Over the period shown in Table XXXIV the first and fifth and higher order birth rates have risen more than the rates for second and third births at durations 4 to 8. This effect may be partly due to the peculiar structure of these rates in 1952 when the first order rates were depressed because the women married in the period just after the Second World War had their first children more quickly after marriage than later cohorts. By duration 5 or 6 their rates in Appendix B would be smaller than those of following cohorts because there were fewer at risk of having a first child. In the same way fourth and higher order births would be proportionately under-represented among the total births of 1952 because few of the women married in the period just after the Second World War would be having births of these orders by 1952 to which year the birth rates of subsequent years have been related.

Sex ratio at birth

In 1959 there were 1,063 male live births per 1,000 female live births. Serial records are published in Table C of Part II and separate figures for live and still births by legitimacy are shown in Table XXXV. The generally rising trend in proportion of boys during this century can be attributed to the reduction in foetal mortality in this period.

Table XXXV. Male births per 1,000 female births, by legitimacy and whether live or still, 1928 to 1959, England and Wales

Did		Legitimate	births	Illegitimate births					
Period	Live	Still	Live and still	Live	Still	Live and still			
1928-30 1931-35 1936-40 1941-45 1946-50 1951-55 1956 1957 1958 1959	1,044 1,051 1,054 1,061 1,061 1,059 1,057 1,061 1,059 1,063	1,231 1,207 1,183 1,158 1,169 1,126 1,081 1,081 1,083 1,071	1,051 1,057 1,059 1,064 1,063 1,060 1,058 1,061 1,060 1,063	1,037 1,044 1,050 1,074 1,056 1,061 1,055 1,049 1,055 1,069	1,280 1,153 1,117 1,173 1,238 1,229 1,049 1,002 1,164 1,144	1,049 1,049 1,054 1,078 1,061 1,066 1,055 1,047 1,058 1,071			

Table XXXVI. Male live births per 1,000 female live births, by maternal age, 1955-59, England and Wales

(Legitimate and illegitimate combined)

	. Maternal age											
	Under 20	20-	25-	30- 35-		40- 45 and over		Not stated	All ages			
Male births per 1,000 female	1,067±4	1,067±2	1,058±2	1,056±2	1,054±3	1,046±6	1,054±25	1,043±24	1,060±1			

Table XXXVI shows the sex ratio of liveborn children by age of mother at maternity for the 1955-59 period. There is some decrease in the proportion of boys with increase in mother's age, although the progression is irregular. This is partly due to the higher proportion of stillbirths for older mothers, the stillbirth rate being higher for boys than for girls. Some clarification is

therefore possible if live births and stillbirths are combined and this has been done in Table XXXVII which also distinguishes the legitimate births from the illegitimate.

Table XXXVII. Male births per 1,000 female births by maternal age and legitimacy for liveborn and stillborn children combined, 1955-59, England and Wales

Maternal age	Legitimate	Illegitimate
Under 20 20- 25- 30- 35- 40- 45 and over Not stated	$\begin{array}{c} 1,067 \pm 5 \\ 1,067 \pm 2 \\ 1,058 \pm 2 \\ 1,058 \pm 2 \\ 1,056 \pm 3 \\ 1,054 \pm 6 \\ 1,059 \pm 24 \\ 1,049 \pm 24 \end{array}$	$\begin{array}{c} 1,060 \pm 11 \\ 1,066 \pm 9 \\ 1,065 \pm 10 \\ 1,052 \pm 12 \\ 1,058 \pm 15 \\ 999 \pm 25 \\ 1,076 \pm 90 \\ 973 \pm 60 \\ \end{array}$
All ages	1,061 ± 1	1,059 ± 5

In the legitimate section of Table XXXVII the relationship with increasing age of mother is still present but the range between the younger and the older ages has been reduced by the inclusion of stillbirths in these figures. The fundamental biological ratio is that of males to females at conception and the ratio at birth differs from it not only on account of the stillbirths but also by the effect of losses in the earlier period of pregnancy, i.e. before the twenty-eighth week of pregnancy for which no data are available.

Over the 1955-59 period there is no significant difference between the sex ratios for legitimate and illegitimate births.

Multiple births

Among the 755,294 maternities in 1959 there were 9,021 with multiple births, 8,934 with twins and 87 with triplets. They produced 17,359 liveborn children and 770 stillborn children. Thus one in 85 of all maternities produced twins and one in 8,700 produced triplets. Details are given in Tables CC and DD.

The number of multiple maternities in a single year is too small for detailed study; the figures would be too much affected by chance fluctuations. A detailed analysis, combining figures for several years, appeared in the 1956 Commentary, pages 33-42.

Stillbirths

The registration of stillbirths in England and Wales began on 1st July 1927, when the Births and Deaths Registration Act, 1926, came into operation. Numbers of stillbirths are published in Part II for England and Wales as a whole by quarters (Table D) and by sex and legitimacy (Table B); Table E gives the total numbers for all county districts. Under the Population (Statistics) Act, 1938, additional information has been collected at the registration of births, including stillbirths, and detailed tabulations of stillbirths by legitimacy and age of mother appear in Table AA.

The stillbirth rate has fallen from 38·1 per 1,000 total births in 1939 to 21·5 per 1,000 in 1958 and 20·8 in 1959. The effects of multiple maternities, age of mother and birth order were amply discussed in the Civil Text for 1946-50 (pages 141-144) where it was shown that the risk is much higher in multiple than in single births especially at the younger ages of mother where the single birth risks are lower; is higher in male than in female births; increases with age of mother except at the youngest ages; and independently of age varies with parity, being highest at first births and lower at the second than at any higher parity.

The seasonal incidence of stillbirths is discussed on pages 59-60. Tables and commentary relating to medical aspects are on pages 71ff, 90ff, and 210ff.

Seasonal incidence of births

Table XXXVIII shows the quarterly pattern of live births since the 1841-50 decade measured in terms of the ratio of the average number of births per day for each quarter compared with the average daily figure for the whole year. The daily average has been used for both quarters and, below, for months to allow for differences in the length of quarters and months.

Table XXXVIII. Quarterly incidence of live births in relation to the average for the calendar year: ratio of quarterly daily average to that of the calendar year taken as 100: 1841 to 1959, England and Wales

Period	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
1841–1850	105	103	96	96
1851–1860 1861–1870	105 104	104 103	96 97	95 96
1871–1880	103	102	98	96 97
1881–1890	103	. 102	98	97
1891–1900	102	102	99	97
1901-1910	102	103	100	95
1911-1920	103	102	99	96
1921–1930 1931–1935	102 101	105 106	100 101	93 92
2,22 2,00			101	12
1936–1940	100	106	102	92
1941–1945	100	104	99	97
1946–1950 1951–1955	103	104	99	94
1931-1933	103	105	99	93
1956	102	0 103	100	95
1957	100	104	99	97
1958 1 9 59	104 105	102 104	97 98	97
1939	103	104	98	93

There has been little change in the seasonal pattern over the period shown in Table XXXVIII. The first half of the year has normally accounted for a few per cent more than the average daily births for the whole year and the second half of the year for correspondingly less. Since the beginning of this century the average daily number of births has usually been highest in the second quarter of the year and lowest in the last quarter. In this respect both 1958 and 1959 have been unusual in having the highest average daily births in the

first quarter (as was usually the case between 1841 and 1900). The figure for the second quarter of 1958 was depressed by the temporary decline in the summer of 1958 and the process of making up this decline appears to have increased the births in the last quarter of 1958 and the first quarter of 1959 to a level slightly above their recent position relative to the other quarters of their respective years.

The quarterly incidence of births for recent years distinguishing legitimate and illegitimate live births and also legitimate stillbirths is shown in Table XXXIX. This table demonstrates that the quarterly pattern is similar for legitimate and illegitimate live births; the wider quarterly variation which had been noticed for illegitimate births has not been apparent for the most recent years.

Table XXXIX. Quarterly birth incidence in relation to the average for the calendar year: ratio of quarterly daily average to that of the calendar year taken as 100: 1939, 1951-55, 1958 and 1959, England and Wales

Period	1939	1951–55 average	1958	1959
		All live births		
1st Quarter 2nd ,, 3rd ,, 4th ,,	101 107 100 92	103 105 99 93	104 102 97 97	105 104 98 93
	Leg	gitimate live births		
1st Quarter 2nd ,, 3rd ,, 4th ,,	101 106 100 93	103 105 99 93	104 102 97 97	105 104 98 93
	Illeg	gitimate live births		
1st Quarter 2nd ,, 3rd ,, 4th ,,	106 108 99 87	104 107 98 91	103 101 97 99	103 104 99 94
	Leg	gitimate stillbirths		
1st Quarter 2nd ,, 3rd ,, 4th ,,	106 104 97 93	106 103 95 96	105 100 97 98	107 105 97 91

The seasonal variation in the number of stillbirths is the product of two factors, the variation of births and the variation in stillbirth rates. The first of these has much the greater influence, but operates something like a month in advance because the average period of gestation is shorter for stillbirths than for live births. Hence the distribution resembles that of live births, but anticipates it slightly with the result that the first quarter usually has the largest numbers.

The monthly birth figures in Table TT allow a more detailed study. The ratios of the daily averages in each month to those for the calendar year are contained in Table XL for some recent years.

Table XL. Monthly birth incidence in relation to the average for the calendar year, 1939, 1951-55, 1958 and 1959, England and Wales

		Ratio of monthly daily average to that of the calendar year taken as 1,000											
Month of occurrence	L	egitimate :	live bir	ths	Ille	Illegitimate live births				Legitimate stillbirths			
	1939	1951–55	1958	1959	1939	1951–55	1958	1959	1939	1951-55	1958	1959	
January	980	994	1,001	1,013	1,076	998	998	1,024	1,043	1,044	1,043	1,047	
February	995	1,030	1,029	1,053	1,041	1,049	1,045	1,029	1,045	1,064	1,067	1,091	
March	1,041	1,063	1,089	1,077	1,080	1,074	1,058	1,050	1,078	1,079	1,046	1,094	
April	1,073	1,056	1,051	1,056	1,046	1,078	1,008	1,039	1,068	1,064	1,074	1,133	
May	1,078	1,065	1,041	1,050	1,138	1,084	1,054	1,056	1,060	1,032	952	1,054	
Juna	1,043	1,035	980	1,014	1,044	1,056	974	1,013	1,002	988	966	970	
July	1,025	1,009	940	1,001	1,038	1,020	901	1,017	984	968	918	995	
August	985	968	951	960	960	941	948	981	972	946	971	975	
September	1,004	991	1,006	990	969	970	1,068	981	963	946	1,029	929	
October	939	936	975	959	859	890	976	916	938	941	923	879	
November	914	913	958	902	853	900	995	914	932	966	1,002	933	
December	927	941	981	928	889	950	983	974	917	980	1,019	914	

For live births Table XL shows that the daily average is normally at a minimum in November, rises sharply until March, remains high until May or June and then declines again except for a minor rise in September (corresponding to December conceptions).

The daily average of live births was exceptionally low in June, July and August of 1958. This effect may well have been associated with the epidemic of Asian influenza which occurred in the autumn of 1957. As already noted the ratios for the last three months of 1958 and January and February of 1959 were higher than normal but the ratios for the later months of 1959 indicate a return to the usual seasonal pattern.

Stillbirths tend to be relatively numerous in January to May and relatively rare in July to December, corresponding approximately to the distribution of live births about a month later. The stillbirth ratios fluctuate more from one year to another than those of live births, mainly because of the smaller numbers involved. The seasonal variation in stillbirth *rates* is shown by Table XLI, which relates the average daily number of stillbirths in each calendar month to the sum of that number and of the corresponding number of live births one month later.

Table XLI. Stillbirth rates by calendar month (see text) 1939, 1951-55, 1958 and 1959, England and Wales

The ratios were calculated before rounding off the rates

Month of occurrence of stillbirth	Ra	te per 1,000 (live an		rths	Ratio of rate to calendar year taken as 1,000					
Stillolitii	1939	1951–55	1958	1959	1939	1951–55	1958	1959		
Year	38 · 1	22.9	21.5	20.8	1,000	1,000 -	1,000	1,000		
January	39·9	23·2	21 · 6	20 · 8	1,045	1,011	1,006	998		
February	38·0	22·9	20 · 9	20 · 9	998	996	974	1,005		
March	38·0	23·4	21 · 4	21 · 7	998	1,021	997	1,040		
April	38·0	22 · 9	22 · 2	22·2	997	999	1,036	1,066		
May	38·6	22 · 8	21 · 0	21·6	1,013	995	977	1,038		
June	37·1	22 · 6	21 · 9	20·3	973	983	1,018	974		
July	38·2	23·1	20·9	21 · 6	1,002	1,005	974	1,036		
August	36·7	21·9	20·7	20 · 5	962	956	966	983		
September	39·5	23·2	22·5	20 · 2	1,036	1,010	1,050	970		
October	39·0	23·5	21·0	20·3	1,023	1,023	978	976		
November	38·4	23·4	22·1	20·7	1,007	1,019	1,031	992		
December	36·3	22·6	21·5	19·1	953	984	999	914		

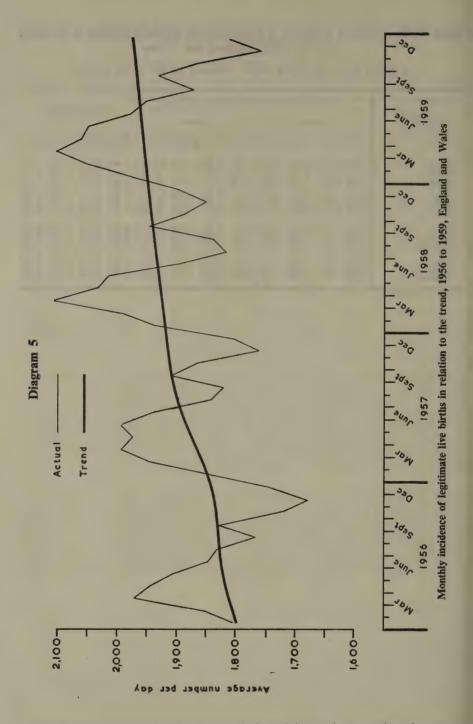
Stillbirth rates calculated on something like the true exposed to risk vary little with the seasons, hardly more than they do by chance as a result of small numbers. The seasonal variation is, however, statistically significant when the numbers are increased by combining the five years 1951-55 ($\chi^2 = 27 \cdot 1$ with 11 degrees of freedom; $P(\chi^2 = 24 \cdot 7) = \cdot 01$). The numbers in the individual years shown, including 1939, are too small to show significant seasonal variation. In the 1951-55 period the rates tended to be highest in October and lowest in August.

The seasonal pattern of ratios to the calendar year average such as those shown in Table XL is disturbed if the trend of births is not constant. Such distortion can be eliminated by relating the average daily number of births for the month, not to the average for the year, but to the trend value for that particular month. This comparison has been made for the period since 1956 and the results are shown in Table XLII and illustrated in Diagram 5.

Table XLII. Monthly incidence of legitimate live births in relation to the trend 1956 to 1959, England and Wales

The ratios were calculated before rounding off the mean numbers

		Mean numbers of legitimate births per day								Ratio of actual to			
Month of occurrence		Actual				Trend				trend value			
	1956	1957	1958	1959	1956	1957	1958	1959	1956	1957	1958	1959	
January	1,802	1,841	1,933	1,972	1,797	1,844	1,914	1,946	1·003	0·998	1·010	1·013	
February	1,851	1,941	1,987	2,050	1,803	1,852	1,917	1,948	1·027	1·048	1·036	1·052	
March	1,968	1,990	2,103	2,095	1,810	1,861	1,920	1,951	1·088	1·069	1·095	1·074	
April	1,941	1,971	2,028	2,055	1,816	1,870	1,923	1,953	1·069	1·054	1·055	1·052	
May	1,899	1,991	2,010	2,044	1,821	1,880	1,926	1,955	1·043	1·059	1·043	1·046	
June	1,845	1,935	1,891	1,974	1,824	1,890	1,930	1,958	1·011	1·024	0·980	1·008	
July	1,830	1,840	1,815	1,949	1,826	1,897	1,933	1,960	1·002	0·970	0·939	0·994	
August	1,764	1,819	1,835	1,868	1,828	1,901	1,935	1,961	0·965	0·957	0·948	0·953	
September	1,826	1,904	1,942	1,927	1,829	1,904	1,937	1,963	0·999	1·000	1·003	0·982	
October	1,717	1,861	1,883	1,866	1,831	1,908	1,939	1,965	0·938	0·975	0·971	0·950	
November	1,677	1,758	1,848	1,755	1,834	1,910	1,941	1,967	0·915	0·920	0·952	0·892	
December	1,742	1,802	1,893	1,807	1,838	1,912	1,944	1,969	0·948	0·942	0·974	0·918	



When seasonal variation has been eliminated it can be seen that there was an upward trend throughout the whole of this period. The trend rose slowly throughout 1959.

Birth rates in different parts of the country

The numbers of live births by sex and legitimacy and the crude birth rates for all administrative areas in England and Wales with summary figures for regions, conurbations and urban/rural aggregates are shown in Table E of Part II. This table also includes an Area Comparability Factor for each area by which the crude birth rates can be standardised for the sex and age structure of the local population. The ratio of the local rate thus adjusted to the national birth rate is also published in Table E.

Even rates standardised for sex and age may not be a safe guide to fertility differentials. The Tables in Appendix C for regions, conurbations, remainders of regions and urban/rural aggregates take the analysis a stage further. They give age fertility rates by legitimacy derived from Table BB and the differentials shown by these rates have been summarised in the form of index numbers in Table XLIII.

Table XLIII. Ratios of birth rates in regions, conurbations and urban/rural aggregates to those of England and Wales, 1959

		All live bir	rths	Legitim	nate live births	Illegitin	nate live births
Area		Stand	ardised		Standardised		Standardised
	Crude	for sex and age	for sex, age and condition	Crude	for sex, age and condition	Crude	for sex, age and condition
1	2	3	4	5	6	7	. 8
ENGLAND AND WALES	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Regions and Conurbations:							
Northern Tyneside Conurbation Remainder of Northern	1·11 1·14 1·10	1·09 1·07 1·09	1·11 1·12 1·11	1·12 1·15 1·11	1·10 1·11 1·10	0·88 0·92 0·87	0·89 0·87 0·90
East and West Ridings West Yorkshire Conurbation Remainder of East and West	1·00 0·98	1·00 1·00	0·96 0·96	1·00 0·97	0·96 0·97	0·96 1·11	1 · 08 1 · 19
Ridings	1.02	1.00	0.96	1.02	0.95	0.87	1.00
North Western South East Lancashire Con-	1.03	1.04	1.07	1.04	1.06	1.00	0.97
urbation Merseyside Conurbation Remainder of North Western	1·02 1·21 0·96	1·03 1·14 1·01	1·00 1·23 1·04	1·01 1·21 0·97	1·01 1·23 1·03	1·21 1·07 0·76	1·24 0·87 0·79
North Midland	1.03	1.04	0.98	1.03	0.97	1.00	1.18
Midland West Midlands Conurbation Remainder of Midland	1·03 1·04 1·02	0·99 0·97 1·02	0·98 0·95 1·01	1·03 1·03 1·03	0·97 0·95 1·00	0·99 1·13 0·86	1·03 1·13 0·92
Eastern	1.04	1.06	1.06	1.05	1.05	0.88	0.94
London and South Eastern Greater London Remainder of London and	0·93 0·94	0·90 0·88	0·91 0·89	0·91 0·91	0·93 0·90	1·21 1·35	1·09 1·16
South Eastern	0.90	0.98	1.01	0.90	1.01	0.85	0.85
Southern	1.04	1.10	1.09	1.04	1.09	1.01	1.08
South Western	0.94	1.01	1.03	0.95	1.02	0.81	0 · 85
Wales (inc. Monmouthshire) Wales I (South East) Wales II (remainder)	0·98 1·00 0·93	0·99 0·98 1·00	1·02 1·00 1·10	0·99 1·01 0·94	1·01 0·98 1·09	0·70 0·65 0·81	0·70 0·68 0·74
Urban/Rural aggregates: Conurbations	1.00	0.96	0.96	0.99	0.97	1.23	1.12
Areas outside conurbations: Urban areas with populations of 100,000 and over	1.01	0.99	0.96	1.00	0.96	1.14	1.20
Urban areas with populations of 50,000 and under 100,000	0.99	0.99	0.98	0.99	0.97	0-98	1.00
Urban areas with populations under 50,000	1.01	1 · 03	1.03	1.02	1-02	0.79	0.84
Rural districts	1.00	1.07	1.09	1.01	1.08	0.73	0.78

Among the conurbations, the remainders of regions, and the complete regions that do not contain a conurbation, which together make up seventeen mutually exclusive areas covering the whole of England and Wales, the highest crude birth rate (column 2) in 1959, as in previous years, was that of the Merseyside Conurbation followed by the Tyneside Conurbation and the remainder of the Northern Region. Standardisation either for sex and age alone (column 3), or for sex, age and marital condition (column 4) does not affect the position of the Merseyside Conurbation but does affect the indices for some of the other areas; standardisation by sex and age alone raises the rate for the Southern Region into second place, while standardisation by sex, age and condition brings the low crude rate for Wales II (which excludes

South East Wales) close to the two parts of the Northern Region. The smallest crude rates occurred in the Remainder of the London and South Eastern Region, Greater London, Wales II and the South Western Region. The effect of standardisation on the figure for Wales II has already been mentioned and standardisation by sex, age and condition entirely removed the deficiency in the Remainder of the London and South Eastern Region, sex and age alone accounting for more than three quarters of it whereas in Greater London standardisation slightly increased the deficiency. Other areas where standardisation made a considerable difference were the Remainder of the East and West Ridings Region (ratio reduced from 1.02 to 0.96), the Remainder of the North Western Region (raised from 0.96 to 1.04), the North Midland Region (reduced from 1.03 to 0.98), the West Midlands Conurbation (reduced from 1.04 to 0.95), and the South Western Region (raised from 0.94 to 1.03).

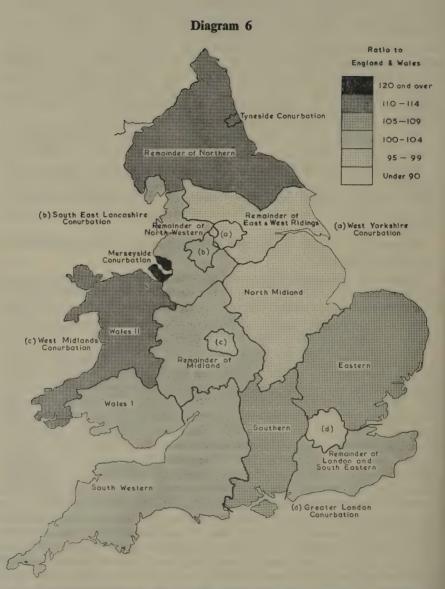
The peculiar sex-age condition structure of the population made a difference of 0.05 or more to the index in nine of the seventeen mutually exclusive areas in Table XLIII. Standardising by sex and age alone gave an indication of this difference in all areas except the South East Lancashire Conurbation and the North Midland Region; in Greater London the effect of standardisation by sex and age alone was more than that of standardisation by sex, age and condition.

The ratios of column 4 of Table XLIII for regions and conurbations are illustrated in Diagram 6.

Urban and rural aggregates showed no great difference in crude birth rates but standardisation shows that this was merely because the different sex-age structure of their populations conceals the higher fertility rates in rural areas.

The legitimate birth rate indices in columns 5 and 6 of Table XLIII are similar to their counterparts for all births in columns 2 and 4.

The indices for illegitimate births show a rather different picture. Among the seventeen mutually exclusive areas, the crude illegitimate birth rates were high in all the conurbations except Tyneside. Standardisation for sex, age and condition entirely removed the excess in the Merseyside Conurbation and one half of the considerable excess in Greater London, but in the West Yorkshire and South East Lancashire Conurbations the excess was increased by this standardisation. Crude rates were low in Wales, the South Western Region and in all the remainders of regions which contain conurbations; standardisation usually raised the crude rates, the deficiency in the Remainder of the East and West Ridings is removed completely by standardisation and is reduced in the Remainder of the Midland Region. The North Midland Region had a crude rate slightly above that of England and Wales and standardisation increased it by no less than 18 per cent. The figures of illegitimate births for the urban/rural aggregates show that outside the conurbations, when sex, age and condition have been allowed for, there is a well marked gradient from the low level in the rural districts to a high level in urban areas with a population of 100,000 and over, the standardised ratio for these areas being higher than the similar ratio for the conurbations.



Live birth rates standardised for sex, age and marital condition, conurbations and remainders of regions, 1959, England and Wales

MORTALITY IN 1959

Introduction

In these Commentaries it has become very difficult in recent years to discuss mortality statistics for a single year without laying oneself open to the charge of repetition in all but minor detail of what was said for the previous year. From the statistics of the year under review it may be possible to say that this or that rate of mortality continues to decline (or to rise) but for a more detailed analysis, review over a longer period may be indicated.

A change is therefore being made in the nature of these annual Commentaries on mortality statistics. In future, the full range of topics will not always be the subject of individual comment, and chapters will not be repeated every year with contents virtually unchanged. Instead, reviews of particular subjects will be undertaken from time to time in which recent trends will be considered in more detail but over a longer period. They will not necessarily be restricted to mortality data alone. Not unnaturally these reviews will usually consider subjects of topical or general interest but from time to time methodological aspects of vital statistics may also be discussed.

Despite this general change in approach there still remains a place for a brief review of general mortality statistics which may be of some interest to those concerned with the Public Health and which will also have a place as a historical document in showing the particular problems occupying our minds at the present time.

One further point should be made concerning the mortality statistics of the Commentary volume of the Registrar General's Statistical Review. In Part I (Medical Tables) in order not to delay production of the tables the computation of rates and ratios has to be kept to a minimum. Also, presentation of the data in their most economical form means that data required for comparison are often not brought together. With the later production of the Commentary volume both these points can be covered to some extent. Thus the tables which in the past formed the basis for detailed commentary will continue to be published, in the main without comment, in the hope that users of the data will find them presented in a more readily usable form. The content of these tables will be reviewed from time to time.

Special subjects considered briefly in this report are (a) mortality by marital status on page 164, and (b) an introduction to mortality from congenital malformations on page 172.

General mortality

The crude death rate in 1959 was 12·3 per 1,000 population for males (12·4 in 1958) and 11·0 per 1,000 for females (11·0 in 1958). For both sexes the Standardised Mortality Ratio (S.M.R.) fell by one point compared with the previous year, to 94 for males and 89 for females. The experience of 1950-52 for each sex is taken as the standard (100).

There was an outbreak of influenza in the early months of the year which caused the crude death rate for the first quarter of the year to rise to 15.8 per 1,000, the highest for any quarter since the corresponding period in 1953, but well below the high figure of 19.1 reached in the first three months of 1951. The mortality in the succeeding three quarters of the year was on the low side. It is a common finding that after a noticeable outbreak of "influenza" in the first quarter of a year with increased mortality, the death rate in succeeding quarters is low. It is no doubt partly due to the fact that the deaths of the old and weakened, who might have died soon in any case, are hastened by a few months or weeks by influenzal infection. The reverse is also true that a mild and "infection free" winter is often followed by higher death rates.

In considering the death rates by age and sex the increase in the death rate of young men aged 15-24 is most noticeable. This increase was almost entirely accounted for by the larger number of deaths in this group caused by motor vehicle accidents, particularly those causing the deaths of riders or passengers of motorcycles. To tackle this problem one must look to a large extent to fields other than medicine, but a considerable and largely medical problem, although in some ways a less dramatic one, exists at the older end of the age scale where the death rate for men has remained virtually constant for the past two decades. The death rate for women continues to decline slowly. Some of the blame for the stability of the male death rate can be laid on cancer of the lung and coronary artery disease, but it seems unlikely that it lies wholly there because although Morris* has shown that by excluding these two causes the trends in death rates for males and females are much nearer parallel, few would deny that a very large part of the increase in the numbers of deaths assigned to these causes has been the result of better diagnosis.

Table XLIX on page 79 shows deaths, death rates and S.M.R.s for a selection of the more important causes of death. Among those shown there was a rise in 1959 compared with 1958 in the following causes:

- (a) Cancer of lung—this had the effect of slightly increasing the S.M.R. for males for all malignant neoplasms.
- (b) Leukaemia and aleukaemia. The S.M.R. rose for females only and was due to an abnormally large increase of 134 deaths assigned to this cause. Although the increase was spread over lymphatic, myeloid, and acute leukaemias, in the first two the number of deaths assigned in 1958 were abnormally low and the rise in these types can be attributed to a return to the normal trend line. On the other hand, the increase in deaths of women assigned to acute leukaemia may be of more significance. It occurred more at the younger ages.
- (c) Arteriosclerotic heart disease. The S.M.R. for females rose from 129 to 130, but fell slightly for males. It would be premature to suggest that this might be the turning of the tide for this disease for a similar happening occurred in 1953 only to be followed by an increase larger than usual in the next year.
- (d) Respiratory diseases. As a result of the influenza epidemic mentioned earlier the S.M.R. for this group of conditions increased considerably when compared with 1958. The increase was, however, restricted to influenza and pneumonia. Bronchitis, on the other hand, showed a slight fall.

^{*}MORRIS, J. M. 1957. Uses of Epidemiology, page 2.

(e) Deaths from motor vehicle traffic accidents. This has also been referred to earlier. Although numerically more important in males the proportional increase was greater in females.

Those causes of death which showed a decrease in 1959 compared with 1958 included tuberculosis, whose S.M.R. is well under a third of what it was at the beginning of the decade. There was an encouraging reduction in the number of deaths assigned to carcinoma of the breast. Although occurring in both sexes, the decrease of 241 deaths assigned to this cause among females meant that the S.M.R. has dropped for the first time to 97. However, the distribution of deaths by age shows that there is no consistency in this decrease, and therefore, while encouraging, hopes of a permanent fall may prove to be false.

There was a fall in both sexes in mortality from ulcer of stomach and duodenum. Over the past decade any reduction in mortality from this cause has been restricted largely to males and, in fact, there were more deaths of women per year assigned to ulcer of stomach in the period 1955 to 1959 than in any year since 1940.

Suicides showed a decrease in both sexes. For women this occurred for the second successive year since the sharp rise that took place between 1952 and 1957.

Infant mortality

Once again the infant mortality rate fell in 1959 to its lowest level of 22.2 per 1,000 live births. There was, however, a rather disquieting factor concealed in this fall, or at the least a warning note. It has always been assumed in the past that of the two main divisions of infant mortality the neonatal (deaths under four weeks) portion would be the most difficult to reduce. On the other hand, it has been felt that a very large part of post-neonatal mortality (deaths over four weeks and under one year) was preventible.

This may well turn out to be true but it should be noted that in 1959 the mortality rate for babies aged between three and six months remained constant at 2·1 per 1,000 live births and has remained at that level since 1957. Further, the mortality rate between six months and one year at 1·8 per 1,000 live births was the same as in 1956, and was actually higher than in 1958; thus the postneonatal mortality rate wants close watching. There is no evidence that this stability is due to the reduction of deaths from one group of causes being counterbalanced by an increase in another group.

The neonatal mortality rate, on the other hand, continued to fall from 16.2 per 1,000 live births in 1958 to 15.9 per 1,000 in 1959. A fall was seen in both deaths under one week and between one and four weeks.

The stillbirth rate fell from 21.5 per 1,000 total births in 1958 to 20.8 per 1,000 in 1959. This continued fall in the stillbirth rate is encouraging to see after a decade between 1948-57 in which there was no improvement. From 1st October 1960 it became compulsory to register the cause of stillbirth in England and Wales. This should make possible further epidemiological research which may help in reducing the stillbirth and perinatal mortality rates further.

While it is impossible to forecast the lowest stillbirth and infant mortality rates that it is possible to reach, some idea of what can be attained in the present state of our knowledge can be gained by consideration of the lowest rates attained in the various regions of England and Wales at the present time. This is shown in Table LVIII (page 99) and is summarised in the table below.

Infant mortality and stillbirth rates, 1959

		England and Wales	Lowest regional rate (Region given in brackets)	Highest regional rate (Region given in brackets)
	Total infant mortality (under 1 year) Neonatal mortality (under 4 weeks)	22·2 15·9	18 · 6 (Eastern) 13 · 3 (Southern)	26·3 (Wales) 19·6 (Wales)
Rates per	Early neonatal mortal- ity (under 1 week)	13 · 6	11·3 (Southern)	16·3 (Wales)
1,000 live births	Late neonatal mortality (1 week and under 4 weeks)	2.3	1·8 (South Western)	3·3 (Wales)
	Post-neonatal mortal- ity (4 weeks and under 1 year)	6.3	5·0 (Eastern)	7·6 (East and West Ridings)
Rates per 1,000 total	Stillbirths (at or over 28 weeks gestation) Perinatal mortality	20 · 8	18·0 (London and South Eastern)	26·3 (Wales)
(live and still) births	(stillbirths plus infant deaths under 1 week)	34 · 1	29·2 (Southern)	42·2 (Wales)

Many explanations have been advanced for the differences in the regional mortality rates. It is possible that some of the differences may be the result of climatological factors and thus beyond our control. This seems unlikely, however, to account for more than a small part of the difference, a more likely explanation being found in the combination of the various social, medical and environmental factors which have rightly been incriminated in the past and many of which can be at least partially controlled.

The table below shows the position of England and Wales in relation to other countries with lower rates as far as the various components of the still-birth and infant mortality rates are concerned.

Infant mortality and stillbirth rates, England and Wales and certain other countries, 1958

		England and Wales	Australia	Netherlands	New Zealand	Norway	Sweden
	Total infant mortality (under 1 year)	22.2	20.5	17.2	19.4	20.0	15.9
Rates per	Neonatal mortality (under 4 weeks)	15.9	14-5	12.0	13.6	13.3	12.0
	Early neonatal mortality (under 1 week)	13.6	12.6	10-1	11.6	10.9	10.6
live births	Late neonatal mortality (1 week and under 4 weeks)	2.3	1.9	1.9	2.0	2.4	1.4
	Post-neonatal mortality (4 weeks and under 1 year)	6.3	6.0	5.2	5.8	6.7	3.8
Rate per 1,000 total	Stillbirths	20.8	*	16.7	15.0	14.3	15-2
1,000 total (live and still) births	Perinatal mortality (Stillbirths plus infant deaths under 1 week)	34·1	•	26.7	26.5	25 · 1	25.7

^{*}Not available

Maternal mortality

In 1959 there were 243 deaths assigned to complications of pregnancy and childbirth and a further 47 to the results of abortion. There have been great advances in the care of the pregnant woman and this figure is only just over a tenth of the number assigned thirty years previously. Nevertheless, it would be premature to relax efforts to reduce this number still further. The Ministry of Health's confidential enquiry into maternal deaths, 1955-57,* showed that almost half of the deaths occurring during that period were classified as avoidable. In addition it should be remembered that maternal deaths can be likened to the part of the iceberg that appears above the surface of the water. If many of the deaths were avoidable, then there must be a quantity of disease which does not end fatally which is also avoidable.

The number of maternal deaths assigned to individual causes are now so small that random fluctuations are probably beginning to make their appearance. Thus small increases in a few of the causes are probably attributable to this. The largest single cause among those shown was toxaemia with 57 deaths assigned in 1959 compared with 66 in 1958.

^{*}MINISTRY OF HEALTH. Confidential enquiries into maternal deaths, 1955-1957. Reports on Public Health and Medical Subjects No. 103. H.M.S.O., London.

Table XLIV. Crude annual death rates per 1,000 living, and Standardised Mortality Ratios, 1841 to 1959, England and Wales

Period		leath rate 00 living	Standardised Ratio (1950–52=)*
	Males	Females	Males	Females.
1841–1850 1851–1860 1861–1870 1871–1880 1881–1890	23·1 23·1 23·7 22·7 20·3	21 · 6 21 · 4 21 · 4 20 · 1 18 · 1	320 313 319 308 281	396 384 383 362 327
1891–1900 1901–1910 1911–1920 1921–1930 1931–1940	19 · 3 16 · 4 15 · 1 12 · 9 13 · 0 12 · 5	17·1 14·4 13·0 11·4 11·5 10·9	268 221 187 142 125 104	307 248 207 159 136 107
1941 1942 1943 1944 1945	14·0 12·5 12·7 12·6 12·3	11 · 8 10 · 5 11 · 1 10 · 7 10 · 7	124 109 109 106 103	127 111 114 108 106
1946 1947 1948 1949 1950	12 · 2 12 · 9 11 · 5 12 · 3 12 · 3	10 · 9 11 · 2 10 · 1 11 · 1 11 · 0	101 106 93 99 98	106 108 95 103
1951 1952 1953 1954 1955	13·4 12·2 12·2 12·2 12·5	11 · 8 10 · 5 10 · 7 10 · 5 10 · 9	106 96 96 95 97	106 93 94 91 93
1956 1957 1958 1959	12·5 12·3 12·4 12·3	10·9 10·7 11·0 11·0	96 94 95 94	92 88 90 89

^{*} Civilians only, 1914–1918 and 1939–1949.

Table XLV. Abridged life table, 1957-59, England and Wales

M	ales	Age	Fem	ales
lx	$\overset{\circ}{e_{x}}$	x	l_x	$\overset{\circ}{e}_{x}$
10,000	68 · 0	0	10,000	73 · 7
9,748 9,732 9,723 9,715	68 · 7 67 · 8 66 · 9 65 · 9	1 2 3 4	9,801 9,788 9,780 9,774	74·2 73·3 72·3 71·4
9,709 9,686 9,666 9,622	65·0 60·1 55·2 50·5	5 10 15 20	9,770 9,753 9,740 9,721	70 · 4 65 · 5 60 · 6 55 · 7
9,569 9,518 9,458 9,369 9,226 8,987 8,565 7,850	45 · 8 41 · 0 36 · 2 31 · 6 27 · 0 22 · 7 18 · 6 15 · 1	25 30 35 40 45 50 55 60	9,695 9,663 9,617 9,548 9,440 9,275 9,026 8,653	50·9 46·0 41·2 36·5 31·9 27·4 23·1 19·0
6,824 5,479 3,893	12·0 9·4 7·1	65 70 75	8,074 7,192 5,878	15·2 11·8 8·8
2,305	5.3	80	4,152	6.5
979	4.2	85	2,278	4.7

This abridged life table is constructed from the estimated *home* population in 1957, 1958, and 1959, and the total deaths registered in those years.

The column headed l_x shows, for each sex, the numbers who would survive to exact age x out of 10,000 born who were subject throughout their lives to the recorded age death rates of the period.

Column e_x° is the "expectation of life", that is, the average future lifetime which would be lived by persons aged exactly x, if likewise subject to those death rates.

Table XLVI. Expectation of life at birth and at age 1 year, 1838 to 1959, England and Wales

			Expectation	of life at	
From	Year	Bir	rth	Age 1	l year
English Life Table	rear	Males	Females	Males	Females
No. 1	1841 1838–44 1838–54 1871–80 1881–90	40 40 40 41 44	42 42 42 45 45	47 47 47 48 51	48 47 47 50 53
6 7 8 9 10	1891–1900 1901–10 1910–12 1920–22 1930–32	44 49 52 56 59	48 52 55 60 63	52 56 58 60 62	55 58 60 63 65
11	1950–52	66	72	68	72
From annual Abridged Life Tables	1943 1944 1945 1946 1947	62 62 63 65 64	67 68 69 69	64 64 65 67	69 70 71 71 71
	1948 1949 1950 1951 1952	66 66 67 66 67	71 71 71 71 71 72	68 68 68 67 68	72 72 72 72 72 73
	1953 1954 1955 1956 1957	67 68 68 68 68	72 73 73 73 74	68 69 68 69	73 74 74 74 74
	1958 1959	68 68	74 74	69 69	74 74

Table XLVII. Annual death rates per 1,000 living, by quarters in each year 1931 to 1959, with ratios to each yearly rate taken as 100, England and Wales

	De	ath rate j	per 1,000 liv	ing	Ratio	to yearly	y rate taken	as 100
	March	June	September	December	March	June	September	December
1931	16·5	11 · 5	9·6	11·7	134	93	78	95
1932	15·4	11 · 6	9·7	11·5	128	97	81	96
1933	17·1	10 · 8	9·4	12·0	139	88	76	98
1934	14·6	11 · 8	9·6	11·2	124	100	81	95
1935	13·2	12 · 0	9·8	12·0	113	103	84	103
1936 1937 1938 1939 1940	15·1 16·2 13·6 15·1 20·6	11 · 8 11 · 6 11 · 6 11 · 7 11 · 9	9·7 9·7 9·9 9·9	12·0 12·3 11·5 11·8 14·1	125 131 117 125 143	98 94 100 97 83	80 78 85 82 75	99 99 99 98 98
1941	18·4	14·2	10·1	11·5	136	105	75	85
1942	15·8	12·0	9·8	11·6	128	98	80	94
1943	14·5	11·7	10·1	15·7	112	90	78	121
1944	15·3	12·0	11·0	12·7	120	94	87	100
1945	16·5	11·5	10·0	12·6	131	91	79	100
1946	15 · 4	11 · 2	9·7	11·9	128	93	81	99
1947	17 · 6	11 · 3	9·2	11·4	143	92	75	93
1948	12 · 4	10 · 3	9·4	11·7	113	94	85	106
1949	15 · 2	11 · 2	9·3	11·8	129	95	79	100
1950	14 · 0	11 · 1	9·3	12·3	120	95	80	106
1951	19·1	11 · 1	9·1	11·0	153	89	73	88
1952	13·4	10 · 6	8·9	12·4	119	94	79	110
1953	15·8	10 · 4	8·9	10·7	139	91	78	94
1954	14·0	10 · 6	9·3	11·4	124	94	82	101
1955	15·4	11 · 2	9·1	11·1	132	96	78	95
1956	15·3	10·8	9·3	11·3	131	92	79	97
1957	12·2	10·6	9·7	13·4	106	92	84	117
1958	14·7	11·0	9·3	11·7	126	94	79	100
1959	15·8	10·6	9·0	11·1	136	91	78	96

Table XLVIII. Average annual death rates per 1,000 living, by sex and age, 1841 to 1959, England and Wales

	85 and over	500.0	6.4	4.6.0	3.00 4.2	2.0	5.65.7
		289	296 271 261 261	243 245 245 241	241 254 253 253	208	222 199 215 215
	-69	82.4 80.0 79.8	80.9 78.9 79.5	72.5 70.8 69.5 65.9	64 · 0 62 · 5 61 · 0 60 · 1	52.6 52.1 51.9	51 · 0 48 · 7 49 · 9 49 · 3
	45-	21 · 1 20 · 1 20 · 6	21 · 0 20 · 6 20 · 3	18.1 16.9 16.0 14.4	12 · 8 12 · 4 11 · 9 11 · 5	9.86 8.79 8.02	7.55 7.59 7.45 7.34
	25-	11.6 10.9 10.7	9.92 8.76 7.58	6·34 5·60 5·17 5·91	4·26 3·97 3·67 3·22	2·84 2·17 1·60	1 · 40 1 · 41 1 · 32 1 · 30
Females	15-	8 · 50 7 · 98 7 · 30	6·12 4·97 4·06	3.34 3.05 4.06	2·83 2·67 2·51 2·17	1.98 1.29 0.60	0.45 0.49 0.45 0.44
	5-	7.27 6.84 6.25	5.05 4.23 3.49	3.03 2.78 3.18	2.05 1.90 1.71 1.40	1.13 0.59 0.37	0.30 0.32 0.27 0.31
	1				6.23	3.26 1.62 1.04	0.83 0.90 0.77 0.81
	*-0	137 139 139	134 128 138	124 105 97 79	66 59 54 48	23.24	2222
	All	21 ·6 21 ·4 21 ·4	20·1 18·1 17·1	15.0 13.3 12.8	11111 4 4 4 4 6	10.9	10.9 11.0 11.0
	85 and over	312.3 308.3 315.0	327·4 306·0 286·7	274·6 283·0 281·6 267·8	272.7 298.1 278.9 286.9	227 · 0 241 · 6 265 · 9	256·2 226·8 242·6 240·0
	-59	89.6 86.8 87.7	90.2 89.4 89.4	83.4 82.0 81.7 81.1	76·2 76·3 75·1 76·2	69·0 69·9 75·5	75.8 73.5 75.1 73.9
	45-	23 · 6 23 · 2 24 · 8	26·1 25·5 25·2	23 · 0 21 · 7 21 · 0 19 · 5	16.9 17.0 16.6 17.3	15.7 14.5 13.9	13.7 13.5 13.5
	25-	11.2 10.9 11.5	11 · 3 9 · 79 8 · 82	7.59 6.76 6.76 7.61	3.95 3.95 3.95	3·72 2·58 2·05	1.85 1.86 1.79
Males	15-	8·23 7·71 7·26	6.24 4.97 4.38	3.77 3.45 3.69 4.85	3.06 2.93 2.81 2.64	2.99 1.42 1.05	0.93 1.03 0.95 1.03
	5	7·24 6·79 6·43	5.29 4.20 3.40	2.93 2.67 2.75 3.11	2.10 2.06 1.84 1.60	1.44 0.79 0.52	0 · 43 0 · 46 0 · 44 0 · 43
	1				6.88	3.72 1.90 1.23	0 · 98 1 · 04 0 · 99 1 · 00
	*-0	167 168 168	163 155 168	151 129 121 101	86 77 70 62	56 41 30	27 26 25 25
	All	23·1 23·1 23·7	20.3 20.3 19.3	17.1 15.6 15.5 14.9	12.9 12.9 12.7 13.3	12.8 12.2 12.5	12.5 12.3 12.4 12.3
		:::	:::	::::	::::	:::	: : : :
		1841–1850 1851–1860 1861–1870	1871–1880 1881–1890 1891–1900	1901–1905 1906–1910 1911–1915 1916–1920	1921–1925 1926–1930 1931–1935 1936–1940	1941–1945 1946–1950 1951–1955	1956 1957 1 9 58 1959

Per thousand live births; related live births from 1931 to 1956.

Table XLIX. Deaths, death rates per million living, and Standardised Mortality Ratios (1950-52=100), from selected causes, by sex, 1950 to 1959, England and Wales

		1			1	1	1			1				
		1950	1951	1952	1953	1954	1955	1956	1957	1958	1959			
					All	causes								
Deaths	${\mathbf F}$	261,152 249,149	281,724 267,656	257,760 239,724	259,490 244,039	259,797 242,099	266,976 251,888	267,904 253,427	266,407 248,463	270,639 256,204	269,878			
Rate	$\{^M_F$	12,337 10,995	13,387 11,754	12,210 10,493	12,237 10,655	12,204 10,532	12,482 10,927	12,451 10,947	12,306 10,682	12,447 10,965	12,332 10,969			
S.M.R.	${M \brace F}$	98 101	106 106	96 93	96 94	95 91	97	96 92	94 88	95 90	94			
				Tube	rculosis, 2	ll forms	(001–019)							
Deaths	${M \atop F}$	9,922 6,047	8,826 4,980	7,114 3,471	5,964 2,938	5,392 2,505	4,533 1,959	3,804 1,571	3,414 1,370	3,207 1,273	2,810 1,044			
Rate	$\left\{ _{F}^{M}\right.$	469 267	419 219	337 152	281 128	253 109	212 85	177 68	158 59	147 54	128 44			
S.M.R.	$\left\{ _{F}^{M}\right\}$	115 125	103	82 72	69 61	62 52	52 41	43 33	38 28	36 26	31 21			
All malignant neoplasms (140-205)														
Deaths	${M \choose F}$	43,570 41,700	44,632 41,448	45,429 42,213	45,935 41,989	47,313 42,782	48,160 43,180	48,935 43,775	50,056 43,961	50,735 45,069	51,783 45,334			
Rate	$\big\{_F^M$	2,058 1,840	2,121 1,820	2,152 1,848	2,166 1,833	2,223 1,861	2,252 1,873	2,274 1,891	2,312 1,890	2,333 1,929	2,366 1,929			
S.M.R.	${M \choose F}$	98 101	101 99	101 99	102 98	103 98	104 98	105 97	106 96	106 97	107 97			
Malignant neoplasm of stomach (151)														
Deaths	${M \choose F}$	7,985 6,404	8,128 6,478	8,039 6,316	8,016 6,176	7,818 6,232	7,942 6,146	7,712 6,163	7,951 5,966	7,934 6,178	7,930 6,146			
Rate	$\big\{_F^M$	377 283	386 284	381 276	378 270	367 271	371 267	358 266	367 257	365 264	362 262			
S.M.R.	${\mathbf K}_{\mathbf F}^{\mathbf M}$	99 102	101	99	98 93	95 92	95 90	91 89	93 84	92 85	91 83			
				t neoplasn				-						
Deaths	${M \choose F}$	10,219 1,978	11,127 2,072	11,942 2,228	12,835 2,239	13,941 2,323	14,761 2,438	15,544 2,553	16,358 2,670	17,040 2,780	18,181 2,882			
Rate	$\left\{ _{F}^{M}\right.$	483 87	529 91	566 98	605 98	655 101	690 106	722 110	756 115	784 119	831 123			
S.M.R.	${M \brace F}$	92 96	101 99	107 105	114 104	122 107	128 111	133 115	138 118	142 121	149 124			
					nant neop		reast (170							
Deaths	${M \choose F}$	7,892	7,972	8,251	8,115	8,315	8,449	8,522	8,552	8,949	8,708			
Rate	$\left\{_F^M\right.$	3 348	3 350	3 361	4 354	362	367	3 368	3 368	383	3 371			
S.M.R.	${M \choose F}$	105 100	102	94 101	128 99	125	119 100	105 100	105 99	109 101	92 97			
				_	nt neoplas			-						
Deaths	F	4,121	4,043	4,008	3,926	3,827	3,844	3,921	3,912	4,115	4,003			
Rate	F	182	178	175	171	166	167	169	168	176	170			
S.M.R.	F	103	99	97	94 aemia and	91	90 nia (204)	91	89	93	89			
Deaths	${M \atop F}$	994	984 943	1,102 941	1,116 1,005	1,142 1,018	1,223 1,001	1,229 1,086	1,301	1,301 1,685	1,315 1,219			
Rate	{M F	47 37	47 41	52 41	53	54 44	57 43	57 47	60 47	60 46	60 52			
S.M.R.		97 93	96 104	107 103	108	110 110	117 107	116 115	122 115	121 113	121 125			
	(1,	93	104	103	109	110	107	113	113	113	123			

	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
				Diabetes	mellitus (260)				
Deaths ${M \choose F}$	1,221	1,219	1,091	1,066	1,048	1,084	1,108	1,013	1,152	1,100
	2,463	2,484	2,247	2,128	1,980	2,207	2,134	2,124	2,163	2,093
Rate ${M \choose F}$	58	58	52	50	49	51	51	47	53	50
	109	109	98	93	86	96	92	91	93	89
S.M.R. ${M \choose F}$	104	104	92	89	87	89	90	81	92	87
	105	104	92	86	78	86	82	80	80	77
		Vascular	lesions a	affecting c	entral ner	vous syste	m (330-3	34)		
Deaths ${M \choose F}$	27,175	29,003	29,158	28,762	30,516	31,098	31,034	30,537	31,298	30,897
	37,528	39,443	40,230	39,307	41,626	43,054	43,453	43,132	44,879	44,253
Rate ${M \choose F}$	1,284	1,378	1,381	1,356	1,433	1,454	1,442	1,411	1,439	1,412
	1,656	1,732	1,761	1,716	1,811	1,868	1,877	1,854	1,921	1,883
s.m.r. ${M \choose F}$	96 98	103 101	102 101	99	104 100	105 101	104 100	100 97	102 99	100 96
		I	Diseases o	f the circu	latory sy	stem (400	-468)			
Deaths ${M \choose F}$	92,480	97,749	92,513	91,423	94,637	96,704	98,065	95,784	99,907	96,306
	93,396	98,922	90,151	90,477	91,331	95,222	95,470	92,566	97,738	95,526
Rate ${M \choose F}$	4,369	4,645	4,382	4,311	4,446	4,521	4,558	4,425	4,595	4,401
	4,121	4,344	3,946	3,950	3,973	4,131	4,124	3,980	4,183	4,065
s.m.r. ${M \choose F}$	98	104	97	95	97	98	99	95	98	94
	102	105	93	92	90	92	91	86	89	85
			Arteri	iosclerotic	heart dis	ease (420)				
Deaths ${M \choose F}$	35,379	37,654	39,568	39,449	42,919	44,857	47,476	48,266	52,085	52,193
	20,455	21,777	22,827	23,175	24,925	26,813	28,300	28,910	31,956	32,729
Rate ${M \choose F}$	1,671	1,789	1,874	1,860	2,016	2,097	2,206	2,230	2,395	2,385
	903	956	999	1,012	1,084	1,163	1,222	1,243	1,368	1,393
S.M.R. ${M \choose F}$	94 96	101 100	105 103	104	112 108	116 115	121 119	122 119	129 129	128 130
				f the respi						
Deaths $\begin{Bmatrix} \mathbf{M} \\ \mathbf{F} \end{Bmatrix}$	32,263	45,783	31,951	36,799	31,090	35,381	36,080	37,939	37,024	40,756
	23,145	35,824	21,038	26,364	20,056	23,345	24,428	24,066	23,784	27,796
Rate ${M \choose F}$	1,524	2,176	1,514	1,735	1,460	1,654	1,677	1,753	1,703	1,862
	1,021	1,573	921	1,151	873	1,013	1,055	1,035	1,018	1,183
S.M.R. ${M \choose F}$	88	126	87	100	83	94	95	98	96	104
	88	135	77	96	71	81	83	80	79	91
63.5					a (480–48					
Deaths {M	1,862	7,393	879	2,905	878	1,460	1,272	3,553	1,216	3,898
	2,040	8,416	871	3,560	933	1,523	1,354	3,163	1,185	3,964
Rate ${M \choose F}$	90	351 370	42 38	137 155	41 41	68 66	59 58	164 136	56 51	178 169
S.M.R. ${M \choose F}$	55 55	220 223	26 23	85 91	25 23	42 37	36 33	99 74	34 27	107 90
CNE	. 0.000	10 100		neumonia				40.074		
Deaths {M	9,608	12,189	10,335	11,273	9,750	11,101	11,671	12,074	12,311	13,648
	8,842	11,290	9,218	10,414	9,126	10,715	11,549	11,488	12,264	13,692
Rate ${M \choose F}$	454	579	490	532	458	519	542	558	566	624
	390	496	404	455	397	465	499	494	525	583
S.M.R. ${M \choose F}$	89 92	114 115	97 93	105	90 90	102 104	107 110	109 107	110 112	121 123
62.0	- 15 500	. 22.040	177.704		is (500–50		40.000	40.000		00.500
Deaths {M	17,703 10,959	22,910 14,582	17,781 9,787	19,567 11,141	17,163 8,625	19,318 9,675	19,890 10,019	18,956 8,141	20,326 9,070	20,193 8,858
Rate {M F	836	1,089	842	923	806	903	924	876	935	923
	484	640	428	486	375	420	433	350	388	377
S.M.R. ${M \choose F}$	91	118	91	99	86	96	98	92	98	96
	95	124	81	91	68	76	77	6 1	68	65
-										

Table XLIX—continued

	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959			
		τ	Ulcer of s	tomach ar	nd duoden	um (540,	541)						
Deaths ${M \choose F}$	3,882	4,276	4,059	3,795	4,011	3,975	3,778	3,568	3,425	3,090			
	1,218	1,354	1,325	1,331	1,467	1,542	1,564	1,461	1,473	1,473			
Rate ${M \choose F}$	183	203	192	179	188	186	176	165	158	141			
	54	59	58	58	64	67	68	63	63	63			
S.M.R. ${M \choose F}$	95 96	105 104	99	92 99	96 107	94 111	89 111	83 101	79 101	70 99			
				Appendici	tis (550-5	53)							
Deaths ${M \choose F}$	744	522	497	462	430								
	555	331	302	328	271								
Rate ${M \choose F}$	35	32	28	26	26	23	24	23	21	20			
	24	22	20	16	18	16	14	13	14	12			
S.M.R. ${M \choose F}$	110 113	101 99	88 89	81 70	80 82	70 69	75	71 57	65 61	60 50			
Nephritis and nephrosis (590-594)													
Deaths ${M \choose F}$	3,352	3,155	2,898	2,706	2,645	2,448	2,554	2,250	2,158	1,923			
	3,368	3,193	2,795	2,549	2,453	2,294	2,125	1,945	1,920	1,762			
Rate ${M \choose F}$	158	150	137	128	124	114	119	104	99	88			
	149	140	122	111	107	100	92	84	82	75			
S.M.R. ${M \choose F}$	106	101	92	86	83	76	79	69	66	58			
	109	102	89	80	76	70	64	58	57	51			
Accidents, poisonings and violence (E800-E999)													
Deaths ${M \choose F}$	11,905	12,447	11,992	12,333	12,630	12,932	12,992	12,858	13,343	13,456			
	6,984	7,309	6,810	7,531	8,239	8,537	8,878	8,703	9,113	9,379			
Rate $\left\{ egin{array}{l} M \\ F \end{array} \right.$	562	591	568	582	593	605	604	594	614	615			
	308	321	298	329	358	370	383	374	390	399			
S.M.R. ${M \choose F}$	98	103	99	101	103	105	105	103	106	106			
	101	104	96	104	112	115	118	113	117	119			
		ľ	Motor veh	icle traffic	accident	s (E810-E	2825)						
Deaths ${M \choose F}$	3,099	3,293	3,013	3,225	3,289	3,552	3,655	3,608	3,966	4,345			
	1,035	1,099	958	1,021	1,158	1,256	1,284	1,219	1,400	1,607			
Rate ${M \choose F}$	146	156	143	152	155	166	170	167	182	199			
	46	48	42	45	50	.54	55	52	60	68			
S.M.R. ${M \choose F}$	98	105	96	102	104	112	115	112	123	133			
	101	107	92	97	109	118	119	111	127	144			
	Accidents	in the ho	me and re	sidential i	institution	E870 · 0	and · 7-E	936·0 and	·7)				
Deaths ${M \choose F}$	1,825	2,002	1,955	2,157	2,452	2,424	2,516	2,419	2,559	2,519			
	3,261	3,481	3,271	3,738	4,165	4,227	4,392	4,248	4,442	4,491			
Rate ${M \choose F}$	86	95	93	102	115	113	117	112	118	115			
	144	153	143	163	181	183	190	183	190	191			
S.M.R. ${M \choose F}$	94	104	102	113	127	125	129	122	128	125			
	99	104	96	108	118	118	120	113	116	115			
		S	uicide and	d self-infli	cted injury	y (E970_E	E979)						
Deaths ${M \choose F}$	2,885	2,831	2,788	3,020	3,178	3,060	3,198	3,170	3,175	3,116			
	1,586	1,638	1,550	1,734	1,865	1,940	2,084	2,145	2,123	2,091			
Rate ${M \choose F}$	136	135	132	142	149	143	149	146	146	142			
	70	72	68	76	81	84	90	92	91	89			
S.M.R. ${M \choose F}$	102	100	98	106	110	105	109	107	106	104			
	101	103	97	108	115	119	126	129	127	124			

Table L. Death rates per 1,000 living, by sex and age, and Standardised Mortality Ratios (all ages), in standard regions and urban and rural aggregates within regional groups, 1959, England and Wales

1		S.M.R.	100	102	103	102	99		00 00 00 00 00	107	104 111 105	109	. 2	108	110	106	
ı								 				_	•	_	_		=
ı		65 and over	59.1	60 · 1	6.09	0.09	58.7		61.4 62.4 64.1	63.0	59.8 65.0 60.3	63.5	5	1.00	9.49	62.6	
ı		45-	7.34	7.51	7.51	7.60	7.28		7.86	7.99	8.33 8.33 8.09	8.23	6	76.1	8.47	7.68	
	Females	15-	1.03	1.03	1-11	1.01	1.01		1.13	1.15	1.13	1.17	20,1	47.1	1.13	1.11	
	7.00	~ <u>,</u>	0.31	0.28	0.30	0.31	0.33		0.29 0.31 0.26	0.28	0.23 0.23 0.23	0.27	0.30	7	0.23	0.33	
ı		9	4.90	5.09	5.01	4.78	4.55		5.40 5.54	5.46	5.83 5.76 5.33	2.67	2.67		5.42	5.19	_
۱		All	11.0	10.8	11-1	11.6	11.3		10.3 11.2 11.8	11.3	10.2 12.5 12.0 10.3	11.5	-		11.8	11.2	
١		S.M.R.	100	106	104	103	868		103	107	108 1112 1124 112	112	108		109	104 95	
ı		65 and over	81.1	85.1	84.2	84.4	80.4		81.3 88.2	85.4	85.3 90.7 88.3	89.3	84.0		8./8	84.0	=
I		45-	13.5	14.5	14.4	13.6	13.0		14.4 15.4 15.4	14.9	15.4 16.1 15.9	15.8	15.5		14.1	13.8	
ı	Males	15-	1.55	1.58	1.57	1.58	1.55		1.66 1.62 1.75	1.69	1.64 1.65 1.82 1.67	1.72	1.69	9	6/.1	1.68	
ı		5-	0.43	0.42	0.40	0.52	0.42		0.42	0.46	0.48 0.48 0.46 0.45	0.46	0.42		14.0	0.45	
		-0	6.12	6.34	6.26	5.83	5.68		6.84 6.52 6.86	92.9	7.32 6.72 7.04 6.80	6.94	6.44	6.60	00.0	6.80	
		All	12.3	12.4	12.6	12.7	12.8		12.3	13.0	12.7 13.6 12.2	13.3	12.9	12.4	+. CT	13.2	
ľ			:	:	s of	under	::		:::	:	::::	:	of	0000	under	::	•
			ENGLAND AND WALES	Urban and rural aggregates:	Areas outside conurbations: Urban areas with populations 100 000 and over	and under 100,000		NORTH OF ENGLAND	Regions: Northern East and West Ridings North Western	Total	Conurbations: Tyneside	Total	Fig.	Urban areas with populations of 50,000	ions	Su,000 Rural districts	

98	97	102	95	96	96 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	100	86	95		106	103	120	108
58.4		8.09	57.4	54.9	57.1 54.0 58.0	59.2	58.3	56.5		61.9	6.09	68.3	63.3
6.93	7.00	7.11	7.24	6.54	6.97	16.0	7.01	6.99		8.17	7.47	10.1	8.19
0.97	0.99	1.09	0.94	0.94	1.03	1.01	1.00	66.0		1.10	1.04	0.51	1.16
0.30	0.32	0.35	0.32	0.30	0.37		0.37	0.36		0.30	0.27	0.22	0.29
4.93	5.11	4.96	3.98	4.34	4.30 9.99 4.4.4 4.4.4	3.97	4.80	4.17		5.87	5.70	8.70	5.59
10.0		10.7	9.72	10.5	10.7	12.0	13.3	12.1		10.5	10.3	11.7	11.0
96	96	102	99	100	9913	102	101	95		107	108	105	806
79.0		84.0	80.9	71.7	78.1 74.9 79.4	83.9	84.4	78.1		80.8	83.7	76.4	86.8
4.00	12.6	13.7	13.1	10.5	4-17.	13.8	12.9	12.4		14.7	15.2	16.4	14.5
1.53	1.50	1.52	1.48	1.46	4.0. 4.0. 5.0. 5.0. 5.0. 5.0. 5.0. 5.0.	1.31	1.47	1.43		1.86	2.00	1.67	1.75
0.40	0.40	0.39	0.66	0.39	0.49 0.35 0.37	0.36	0.46	0.40		0.46	0.51	0.87	0.41
6.06	5.94	5.98	5.64	5.70	5.34 5.90 5.07	6.03	5.08	5.48		7.29	7.29	9.58	5.99
7.55	111.5	12.0	11.3	10.9	13.5 2.5.5 2.5.5	12.8	13.5	12.9		13.3	13.0	14.7	13.0
MIDLANDS AND EASTERN Regions: Midland Midland	Total	Areas outside conurbation: Urban areas with populations of 100,000 and over	i i	: :	Regions: London and South Eastern (excluding Greater London) Southken South Western Toyla	Urban areas with populations of	and under 100,000	80,000 Rural districts	WALES (including Monmouthshire)	Regions: Wales I (South East) Wales II (remainder)	Urban areas with populations of 100,000 and over	בר ב	

Table LI. Deaths from certain causes: (a) by sex and age, (b) distinguishing deaths in which a post-mortem was performed or there was a record of operation, and (c) the percentage to all deaths, 1959. England and Wales

	Persors	All ages	527,651 122,531 23	3,474 1,111 32	380 204 54	958 463 48	25 9 36	159 99 62	966 30 45	39 40	973 452 46
		65 and over	194,284 29,228 15	295 96 33	71 33 46	220 121 55	111	100	11	. 11	141
id wales		45-	44,910 13,411 30	300 96 32	31 56	103	111	2,		1001	145
gland ar	Females	15	9,289 3,842 41	249 74 30	211	72		9933	115	75	87 49 56
1939, En		-0	9,290 4,433 48	09	23 115 65	1001	44 65	6222	5,8	315	8,68
deatns,		All ages	257,773 50,914 20	854 272 32	190 100 53	331 187 56	4 4 6 2 6 5	62 38 61	25 16 64	49 39	466 213 46
operation, and (c) the percentage to all deaths, 1959, England and Wales		65 and over	168,734 32,422 19	1 066 315 30	24 24 52	367	111	3-3	111	- 11	115 30 26
percentag		45-	74,953 26,067 35	1,219	63	229 102 45	111	80	20	111	184 78 42
(c) tue	Males	15-	13,807 7,008 51	328 115 35	44 194	. 16	111	722	29 112 41	20 20	53
lon, and		-0	12,384 6,120 49	7.57	32 18 56	100	11.54	82 51 62	10	46 19 41	112 80 71
or operat		All ages	269,878 71,617 27	2,620 839 32	190	627 276 44	11.	97	14 14 34	45 70 14	507 239 47
a record or			© (§ (§	(c) (g)	(a) (c)	(c) (c) (c)	(c) (c)	(c) (c)	<u>0</u>	<u>@</u> @@	<u> </u>
Lec			:	:	:	:	:	:	÷	:	tive
		ath	:	:	:	:	:	:	:	:	as infective
e wa		of de	All causes	atory		:	:	tions		:	
tnere was	,	Cause of death	All	respir	other		ugh	ll infe	yelitis		classi
				ilosis,	ilosis,	ic dise	ng col	ococca	oliom	:	seases
				Tuberculosis, respiratory	Tuberculosis, other	Syphilitic disease	Whooping cough	Meningococcal infections	Acute poliomyelitis	Measles	Other diseases classified or parasitic
	ICD	Š		001-008	010-019	020-029	950	057	080	085	Rem. 001-138

84

14,076 2,313 16	21,063 4,120 20	8,770 1,659 19	4,003 566 14	2,534 585 23	46,671 10,003 21	3,193 670 21	75,150 7,686 10	84,922 27,809 33	11,375 1,590 14	71,837 6,258 9
4,574 557 12	1,402 283 20	4,048 661 16	1,842 224 12	482 107 22	13,691 2,635 19	1,610 252 16	37,791 2,520 7	27,160 6,747 25	5,900 594 10	38,396 2,133 6
1,420 268 19	1,294	3,913 839 21	1,721 271 16	369 83 22	7,2)3 1,674 23	425 131 31	5,912 1,468 25	5,356 1,905 36	788 172 22	3,945 846 21
152 22 14	183 37 20	747 147 20	436 68 16	2 4 23	1,291 298 23	422	519 279 54	213 125 59	31 29 29	835 302 36
111	67	111	4 6 5 7	166 35 21	191 74 39	16	31 27 87			22.8
6,146	2,882 617 21	8,708 1,647 19	4,003 566 14	1,219 269 22	22,376 4,681 21	2,093 413 20	44,253 4,294 10	32,729 8,777 27	6,719 775 12	43,204 3,303 8
4,703 812 17	7,859 1,455 19	37		471 105 22	15,107 2,976 2,976	738 127 17	24,379 1,584	31,458 9,335 30	3,553 476 13	24,074 1,530 6
2,989 601 20	9,677 1,925 20	29		381 103 27	7,586 1,942 26	266 84 32	5,991 1,500 25	19,219 8,642 45	1,054 314 30	3,776 1,044 28
238	643 123 19	100		258 66 26	1,393	44	488 281 58	1,514 1,053 70	25 25 51	757 362 48
111	7	111		205 42 20	209	67	39 69	1007	111	26 19 73
7,930	18,181 3,503 19	122		1,315 316 24	24,295 5,322 22	1,100	30,897 3,392 11	52,193 19,032 36	4,656 815 18	28,633
3 00	<u>©</u>	<u>0</u>	<u>©</u>	(6) (6) (6)	<u>6</u> 6	(5) (5)	<u>6</u> 60	(6) (5)	(6) (5) (6)	<u>393</u>
:	:	:	: 1	:	atic	:	ntral	nclud.	:	:
:	gun! pu	:	:	eg.	lymphatic	:	g cen	sase, i	lisease	:
;; :	s, and	:	:	ıkaemia		:	ffectin	rt dise	neart o	
oplasm	Trachea, bronchus, a			id aleu	nant		ons a	ic hea y dise	with 1	isease
alignant neor Stomach	ea, br	:		nia an	malign	s mell	r lesi us sys	sclerot	nsion	leart d
Malignant neoplasm: Stomach	Trach	Breast	Uterus	Leukaemia and aleukae	Other malignant and neoplasms	Diabetes mellitus	Vascular lesions affecting central nervous system	Arteriosclerotic heart disease, includ-(a) ing coronary disease (b)	Hypertension with heart disease	Other heart disease
151	162, 163	170	171-174	504	Rem. 140-205	790	330–334	450	440 443	410-416,

Table LI-continued

Cause of death											
V			Males					Females			Persons
	All ages	-0	15-	45-	65 and over	Ali ages	٩	15-	45-	65 and over	All ages
: <u>\$</u> \$0	10,761 3,233 30	21 27	317 134 42	2,218 1,052 47	8,214 2,038 25	12,811 3,435 27	111 6	224 111 50	1,447	11,129 2,624 24	23,572 6,668
: : :	3,898 523 13	88 35 40	219 95 43	1,027	2,564 172	3,964 407 10	25 448 52	195 87 45	588 1118 20	3,097 158 5	7,862 930 112
(c) (a) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	13,648 3,902 29	1,557 959 62	394 211 54	2,392 980 41	9,305 1,752 19	13,692 2,829 21	1,188 728 61	354 162 46	1,306 446 34	10,844 1,493 14	27,340 6,731 25
;; (6) (6)	20,193 3,244 16	296 218 74	215	5,966 1,227 21	13,716 1,727 13	8,858 1,279 14	225 156 69	132 39 30	1,316	7,185 794 11	29,051 4,523 16
respiratory (a) (b) (c)	3,462 1,539 44	111 82 74	180 87 48	1,285 623 48	1,886	1,587 473 30	96 75 78	129 63 49	372 134 36	990 201 20	5,049 2,012 40
Ulcer of stomach and duodenum $\begin{pmatrix} a \\ b \end{pmatrix}$	3,090 1,872 61	nw8	143 106 74	1,029 724 70	1,913 1,039 54	1,473 814 55	83.55	652 69 69	289 211 73	1,142 573 50	4,563 2,686 59
Gastritis, enteritis, and diarrhoea (a) (b) (c)	981 513 52	246 127 52	432	249 155 62	414 188 45	1,395 677 49	151 82 84 54	88 51 60	258 157 61	901 387 43	2,376 1,190 50
:: (5) (5)	1,923 435 23	251 49	364 105 29	654 162 25	854 143 17	1,762 381 22	43 43	233 57- 24	468 130 28	1,019 176 17	3,685 816 22
:: (6) (C)	3,505 1,427 41	111	111	213 122 57	3,292 1,305 40						3,505 1,427 41
Pregnancy, childbirth, abortion $\begin{pmatrix} a \\ b \end{pmatrix}$						230	1001	288 232 81		111	290 233 80

2,309 2,47	42,885 13,575 32	6,026 3,962 66	11,278 6,214 5,55	5,207 3,363 65	324 226 70
102 55 54 54	14,724 2,937 20	657 455 69	4,275 1,964 46	570 383 67	20 18 90
194 87 45	3,709 1,571 42	388 258 66	576 403 70	1,025 694 68	21 18 86 86
182 96 53	1,211 604 50	367 235 64	245 176 72	495 344 69	54 42 78
1,930 817 42	4,187 1,762 42	200 106 53	437 286 65	-11	48 37 77
2,408 1,055 44	23,831 6,874 29	1,612 1,054 65	5,533 2,829 51	2,091 1,421 68	143 115 80
60	8,584 2,037 24	872 604 69	2,142 1,114 52	860 538 63	53 26 49
160	3,330 1,476 44	959 680 71	1,349 893 66	1,407 844 60	45 30 67
218 130 60	1,190 607 51	2,192 1,412 64	1,437 854 59	846 558 66	53 30 57
2,037 979 48	5,950 - 2,581 43	391 212 54	817 524 64	67	30 25 83
2,503 1,254 50	19,054 6,701 35	4,414 2,908 66	5,745 3,385 59	3,116 1,942 62	181 111 61
<u>6</u>	<u>6</u> 60	(C) (E) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	<u>6</u> 60	(c)	<u>0</u> 000
:	ined	:	:	:	::
v	ill-defined	:	:	injury	ns of war
nations	and	lents	:	Z	
alfor	par ::	e accid	idents	elf-inf	d oper
nital m	defir	vehic	er acc	and s	ide an
Conger	Other defined and diseases	Motor vehicle accidents	All other accidents	Suicide and self-inflicte	Homicide and operation
750–759 Congenital malformati	Rem. 210-795	E810- E835	E800- E802, E840- E962	E963, E970- E979	E964, E965, E980- E999

Table LII. Notifications of certain infectious diseases: Notification rates per 100,000 living, by sex and age, 1959, England and Wales

Acute poliomyelitis Measles	Paralytic Non-paralytic	F M F M F M F M F M F	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Acute po	Whooping cough Paralytic	M	457 6·9 526 15 634 11 640 11 411 4·0 37 1·2 4·3 1·1 73 1·9
	Scarlet fever	MF	25 23 122 110 384 335 662 588 884 828 797 851 160 182 17 14 3·1 4·0
			Under 1 year 2 3 3 4 100 150 25 and over 3 All ages

	A	9		Acute encephalitis	ephalitis		ļ							
	pneumonia	nonia	Infe	Infective	Post-in	fections	Enteric or typhoid fever	c or fever	Paratyph fevers	phoid	Erysipelas	pelas	Fo poisc	Food poisoning
	M	ഥ	M	H	M	II.	M	F	M	ΪL	M	[II,	M	IT
Jnder 5 years	104	93	1.2	12.0	I·I	1.0	0.40	0.42	1.8	2.3	1.2	1.2	57	52
:	45	42	0.0	0.41	1.1	0.56	0.23	0.18	1.2	1.8	1.5	1.6	29	92
:	32	23	0.35	0.50	91.0	0.21	0.28	0.38	0.65	0.82	4.0	4.6	17	21
45 45	156	51	11.0	0.08	0.13	80.0	91.0	0.33	0.38	0.46	12	13	14	14
:	100	011		0.03	1	-	1	0.03	0.19	0.52	14	14	15	17
:	99	52	0.41	0.21	0.36	0.26	0.22	0.29	0.72	0.93	6.5	7.4	21	21

Table LII—continued

						Tubero	ulosis		
				Respi	ratory	Mening C.N		Ot	her
				M	F	М	F	М	F
Under 5 years 5	•••	•••		21 17	22 19	2.1	1·3 1·2	3·8 4·3	3·5 4·7
5 15 25		•••	•••	70 79	83	0.62	0·83 0·18	7·9 6·6	11 8.6
45 65 and over			•••	102 89	25 16	0·29 0·24	0·16 0·03	3·8 3·7	4.4
All ages	•••		•••	70	39	0.61	0 · 46	5.2	6.3

Table LIII. Trend of stillbirths per 1,000 total births, 1928 to 1959, and of deaths in the neonatal, post-neonatal and other age periods under 1 year per 1,000 live births, 1906 to 1959, England and Wales

	otal births†		Stillbirths plus infant deaths under 4 weeks	11111	1111	69.9 71.6 70.4	71.5 72.3 70.5 70.5	68.7 67.6 65.3 65.3	59.4 59.4 54.6 51.1
	Stillbirths and infant deaths—rates per 1,000 total births†	,	Infant deaths at 1 week and over	1111	1111	41.7 50.0 36.4	422 402.4 345.1 33.5 33.5 33.5	35.2 34.2 38.4 34.7	37.7 29.0 29.6 26.3 28.1
	leaths—rates	Stillbirths	plus infant deaths under 1 week "perinatal mortality"		1111	60.8 61.4 61.9	62.1 62.3 62.2 61.9	60.8 57.7 57.7 57.7	524 7.527 7.59 7.59 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7.50
-	and infant d	Stillhirthe	(late foetal deaths, at or over 28 weeks' gestation)		1111	40.1 40.8 40.8	044 6.144 6.04 7.04 7.04	39.7 38.3 38.1 37.2	34.8 33.2 30.1 27.6 27.6
	Stillbirths	Stillbirths	deaths under 1 year "birth wastage"			102·6 1111·4 98·3	104.5 103.7 102.5 96.7 95.4	95.9 94.4 886.9 92.5 92.5	92.4 777.5 73.4 73.4
,		period	6 months and under 1 year	32.1 30.0 22.8 17.5 15.4	12:1 4:7 4:4	14·2 19·0 11·7	45.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	10.9 7.3 9.7	10.1 7.2 7.3 6.1
		Post-neonatal period	3 months and under 6 months	22.0 19.6 14.6 111.3 9.5	8.5 7.7 5.0	9.3 10.6 7.9	99.5 7.7 7.7	8 4 7 8 8 8 7 7 8 8 9 7 7 8 9 9 9 9 9 9 9 9	7.58.77
	arious ages	Pos	4 weeks and under 3 months	22.8 20.2 16.5 10.8	9 9 9 9 9 9	11.5	10.8 9.8 9.1	9 4 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	11.3 8.8 8.0 2.2
	oirths* at v	Early neonatal period	1 day and under 1 week	13.0 12.7 12.4 111.3	111.2 9.5 8.4	111.9		111.3 10.9 111.5	10.6 10.0 10.0 9.2 9.0 9.0
	1,000 live b	Early r	Under 1 day	11.5 11.0 10.3 10.3	10.7	10.4 10.4 10.4	10.6 10.6 11.0 10.9	10.7 10.3 10.3 9.8	10.1 9.6 9.1 9.0
	Infant mortality per 1,000 live births* at various ages	Post-	mortality (4 weeks and under 1 year)	76.9 69.8 53.9 41.6 35.7	30.5 26.0 23.8 15.2	34·2 41·1 29·3	34.2 33.0 27.9 26.6	28:5 28:0 24:5 27:2 27:2	23.4 23.9 21.1 21.3
	Infant mo	Late	mortality (I week and under 4 weeks)	15.7 14.9 11.7 9.9	9.0 7.7 7.2 9.0	9.5 8.9	000088 000088	× × × × × × × × × × × × × × × × ×	% % % % % % % % % %
		T	48-4	24 · 5 23 · 4 21 · 7 21 · 7 21 · 8	22.4 21.5 18.7 16.2	21.6 22.2 22.0	2222 2225 2229 2200 0	222.0	20.7 19.6 18.3 17.5 18.0
			Neonatal mortality (under 4 weeks)	40.2 39.0 37.0 33.4	31.4 29.2 26.0 21.1	31·1 32·8 30·9	31.5 32.1 31.4 30.4	25,52 26,33,7,7 26,33,7,7 26,33,7,7	0.2.2.4.4. 0.2.2.4.4.
		Total	mortality (under 1 year)	117.1 108.7 90.9 74.9 67.6	61.9 55.3 49.8 36.3	65.3 73.9 60.2	65.7 62.7 59.3 7.0	58.7 57.7 50.6 50.6 8	60.0 50.6 45.4 6.0
			Period	1906–1910 1911–1915 1916–1920 1921–1925 1926–1930	1931–1935 1936–1940 1941–1945 1946–1950	1928 1929 1930 .	1931 1932 1933 1934 1935	1936 1937 1938 1939 1940	1941 1942 1943 1944 1945

50.7 46.4 42.5 40.7	41.5 40.6 40.8 40.8 40.0	39.3 36.3 36.3
22.6 24.6 16.7 14.3 14.3	14.0 12.1 11.7 10.3	200000 20000
38.5 37.0 37.0 37.0	38.5 37.5 38.9 37.1	36.7 36.2 35.0 34.1
225.55 5.75.59	22222 22222 27222 27422	22.5 22.5 21.5 20.8
66.9 55.0 54.6 51.7	2.28444 2.2946 2.3946 2.446	46.0 45.1 43.6 42.6
www.w wro.wi	64444	8.1.1.0
	60000	9999
€00.44 ±00.000	1.6 4.6 6.0 9.0 9.0	4444 7444
.000 .000	80.8 0.7 0.7 0.7 0.7 0.7	6.03 8.03 8.03 8.03
**************************************	 	7.4
18.4 18.6 13.0 11.1	10.9 9.3 7.7 7.6	6.9
6.4.4.E. 5.4.1.E.	200000 200000	2222 6446
155.5	22.444 2.2.8.0.0	14.2 14.1 13.8 13.6
24.5 22.7 19.3 18.5	18.8 17.7 17.7 17.7	16.5 16.5 16.2 15.9
42.9 41.4 33.9 32.4 29.6	24. 27. 27. 27. 24. 24. 24.	223.1 222.5 22.25
1946 1947 1949 1950	1951 1952 1953 1954 1955	1956 1957 1958 1959

* Rates based on related live births from 1926 to 1956.

† The births upon which these rates are based for successive calendar years are numbers registered up to 1938 inclusive, and numbers of occurrences from 1939.

Table LIV. Stillbirths per 1,000 total births, and deaths in the early neonatal, late neonatal, and post-neonatal periods per 1,000 live births*, distinguishing illegitimacy, 1936 to 1959, England and Wales

-	1959	20.8	13.6	30	6.3	27.4	18.2	2.5	6.7
	1958	21.5	13.8	2.4	6.4	28.4	18.3	2.3	7.2
	1957	22.5	14.1	32.4	6.7	28.7	19.8	2.9	7.3
١	1956	22.9	14.2	2.6	6.9	29.0	18.9	2.7	7.1
	1955	23.2	14.6	2.6	7.6	28.8	20.8	3.1	7.8
	1954	23.5	14.9	2.8	7.7	29.2	20.2	3.5	8.3
	1953	22.4	14.8	2.9	9.2	29.8	19.3	3.2	10.6
	1952	22.7	15.2	3.2	9.3	29.7	21.3	3.9	9.8
	1951	23.0	15.5	43.3	10.9	31.6	21.4	39	12.8 31
	1950	22.6	15.2	3.3	11.1	29.1	21.4	4.5	13.6
ı	1949	22.7	15.6	3.7	13.0	29.5	24.9	4.8	15.1
i	1948	23.2	15.6	54	14.2	31.6	22.0	5.5	17.9
	1947	24.1	16.5	6.2	18.6	30.6	23.5	9.9	24.7
	1946	27.2	17.8	6.7	18.4	33.2	23.7	9.6	26.9
	1945	27.6	18.0	8.9	21.3	31.5	24.3	10.0	30.5
	1940 to 1944	32.3	19.3	7.5	25.1	39.9	28.1	10.7	35.8
	1936 to 1939	38.8	21.6	7.6	25.8	49.6	34.4	10.9	41.6
		Annual rate per cent of 1936-39	Annual rate per cent of 1936-39	Annual rate per cent of 1936–39	Annual rate per cent of 1936-39	Annual rate per cent of 1936-39	Annual rate per cent of 1936-39	Annual rate per cent of 1936–39	Annual rate per cent of 1936-39
		Stillbirths (late foctal deaths at or over 28 weeks' gestation)	Early neonatal deaths (Under 1 week)	Late neonatal deaths (1 week and under 4 weeks)	Post-neonatal deaths (4 weeks and under 1 year)	Stillbirths (late foetal deaths at or over 28 weeks' gestation)	Early neonatal deaths (under 1 week)	Late neonatal deaths (1 week and under 4 weeks)	Post-neonatal deaths (4 weeks and under I year)
			-	infants			7	infants	

* Rates prior to 1957 per 1,000 related live births.

Table LV. Principal causes of death under 1 year: (a) Age-group distribution per cent of all deaths assigned to each cause, (b) Cause distribution per 1,000 total deaths in each age-group, 1959, England and Wales

deaths	Post.	neonatal mortality (4 weeks and under I year)	1,000	267	17	0	1	10	0	gard .	144	က	7
Cause distribution per 1,000 total infant deaths in each age-group	ality	Late (1 week and under 4 weeks)	1,000	421	199	52	7	36	m	14	14	6	69
tion per 1,000 tota in each age-group	Neonatal mortality	Early (under I week)	1,000	138	190	134	38	258	13	33	19	27	269
distribution in	Neo	Under 4 weeks	1,000	179	705	123	33	226	11	30	18	24	240
Cause		Infant mortality (under I year)	1,000	204	509	888	24	163	00	22	13	18	173
deaths	Doet	neonatal mortality (4 weeks and under 1 year)	29	37	-	0	1	-	***	1	2	4	-
otal infant	ality	Late (1 week and under 4 weeks)	10	21	4	9	1	7	4	7	11	S	4
ition per cent of total is assigned to each cause	Neonatal mortality	Early (under 1 week)	. 61	41	95	94	66	16	96	92	87	16	95
Age distribution per cent of total infant deaths assigned to each cause	Neo	Under 4 weeks	71	63	66	100	100	66	66	66	86	96	66
Age dis		Infant mortality (under 1 year)	100	100	100	100	100	100	100	100	100	100	100
	Number	deaths (under 1 year)	16,629	3,398	8,460	1,458	393	2,709	134	360	219	303	2,884
	Course of dood Lond ICD NA	Cause of death (and Act.) 1903)	All causes	Congenital malformations (750-759)	Total causes mainly of prenatal and natal origin other than congenital malformations	Intracranial and spinal injury at birth (760)	Other birth injury (including maternal antepartum haemorrhage) (761)	Postnatal asphyxia and atelectasis (762)	Attributed to maternal toxaemia (769)	Erythroblastosis (770)	Haemorrhagic disease of newborn (771)	III-defined diseases of early infancy (773)	Immaturity alone, or primary to diseases other than of early infancy (774, 776)
		group		03			Prenatal and	congenital	manormanons)				

Table LV-continued

			Age disti	Age distribution per cent of total infant deaths assigned to each cause	tion per cent of total in assigned to each cause	al infant d	eaths	Cause dis	Cause distribution per 1,000 total infant deaths in each age-group	ion per 1,000 tota in each age-group	al infant c	leaths
Aetiological	Corne of doods from MT.	Number		Neona	Neonatal mortality	λ,	Doct		Neon	Neonatal mortality	ity	Post-
group	Cause of ucatif (and ICD 180.)	deaths (under 1 year)	Infant mortality (under 1 year)	Under 4 weeks	Early (under 1 week)	Late (1 week and under 4 weeks)	neonatal mortality (4 weeks and under I year)	Infant mortality (under 1 year)	Under 4 weeks	Early (under 1 week)	Late (1 week and under 4 weeks)	meonatal mortality (4 weeks and under 1 year)
	Total causes mainly of postnatal origin	3,915	100	27	13	14	73	235	88	51	321	109
	Causes classified as infective (001–138) and others mainly infective in origin (340, 391–393, 470–483, 518, 519, 600, 609, 748, 740).	2	90	2	t	9	7	7	-		5	0
	Tuberculous other than tuberculous meningitis (001–008, 011–019) Tuberculous meningitis (010)	111	1000	9	- 11	2 11	100	0 10	=	11	5	8 2-
Postnatal	Septemental, 8km and subcutaneous tissue infections and sepsis of newborn (053, 690–698, 765–768) Whooping cough and measles (056, 085)	39	88	65	61	46	35	200	4		12	6 00
group	Methygococcal infections and non-meningococcal meningitis (057, 340) Causes classified as infective not specified above	173	100	29	7	22	71	10	4	1	22	26
	Ottis media and massoiditis, empyema and	59	100	25	00	17	75	4 -		0	9	9 :
	Acute upper respiratory infections and influenza (470-475, 480-483) Pneumonia and bronchitis (490-493, 763, 500-503)	60 89 7611	9 25	0 11 6	w.z	0 84	90 60	521	1 1 65	000	219	17
	Gastro-enteritis (including diarrhoea of newborn) (571, 764)	301	100	15	2 2	13	85	18	4	-	22	54
	Accuental mechanical sunocation from vomit, food, foreign body, or in cot (E921–E925)	327	100	13	4	6	87	20	6	1	16	09
	ticide (E926, E980-E985) Other violent causes (rem. E800-E999)	83	100	78	707	000	22 87	in in	2	91	40	15
Unclassified	Total causes remaining	856	100	36	24	12	2	51	26	21	59	115
	Neoplasms (140-239) Other remaining causes	82 774	100	23	16	12	77 62	47	24	19	55	13

6	7	2	991
184	69	115	816
573	269	304	427
517	240	277	483
372	173	198	628
-	-	0	45
S	4	9	13
94	95	94	42
66	66	100	55
100	100	100	100
6,183	2,884	3,299	10,446
.:.	f early	nfancy	:
, 776,	s other than of early	diseases of early infancy	:
ty (774			:
ımaturi 	disease	diseases	:
n of in	mary to	with c	
mentio	, or pri	ciated	
r with	y alone (774, 7	773.5)	
Immaturity, or with mention of immaturity (774, 776, 760 .5-	Immaturity alone, or primary to dinfancy (774, 776)	Immaturity associated with c (760.5-773.5)	All other causes

Table LVI. Principal causes of death under 1 year in the neonatal, post-neonatal and other age periods, by sex, per 1,000 live births, 1959, England and Wales

	priod	6 months and under 1 year	1.87	0.39	0.00		11	00.00	11	00.00	00.00	11	11
	Post-neonatal period	3 months and under 6 months	2.26	0.46	0.01	11	11	00.00	11	11	11	10.0	0.01
	Post-	4 weeks and under 3 months	2.73	0.85	0.00	10.0	11	0.02	00.00	00.00	00.00	0.07	0.04
ve births	eonatal	1 day and under 1 week	7.06	1.13	3.31	1.22 0.66	0.17	1.77	90.0	0.16	0.23	0.21	1.30
er 1,000 li	Early neonatal	Under 1 day	8·19 6·94	0.69	5.73	1.03	0.45	2.37	0.11	0.27	90.0	0.21	2.25
Infant mortality per 1,000 live births	Post-	mortality (4 weeks and under 1 year)	5.80	1.71 1.68	0.10	0.01	11	0.03	00.00	10.0	00.00	0.02	0.04
Infant	Late	mortality (1 week and under 4 weeks)	2.40	0.95 0.98	0.51	0.16	00.00	0.09	10.0	0.04	0.04	0.03	0.14
	Trott	neonatal mortality (under 1 week)	15.25	1.81	9.04	2.25	0.62	4.14	0.19	0.43	0.29	0.42	3.99
	Mecanto	mortality (under 4 weeks)	17.65 13.98	2.76	12.84	2.41	0.63	4.24	0.19	0.47	0.33	0.45	3.47
	H Lotes	infant mortality (under 1 year)	24·51 19·78	4.47	12.94 9.56	2.41	0.63	4.27	0.19 0.16	0.48	0.33	0.47	3.52
	Cancer of death (and TCD No.)	. 1	All causes $\{M\}$	Congenital malformations (750–759) {M	Total causes mainly of prenatal and natal origin other $\{M, \dots, \dots, \dots, \{F, M, \}\}$	Intracranial and spinal injury at birth (760) { F	Other birth injury (including maternal antepartum M haemorrhage) (761) F	Postnatal asphyxia and atelectasis (762) $\left\{\mathbb{F}\right\}$	Attributed to mat rnal toxaemia (769) $\left\{F\right\}$	Erythroblastosis (770) \cdots \cdots \mathbb{R}^{M}	Haemorrhagic disease of newborn (771) { M	III-defined diseases of early infancy (773) $\{K\}$	Immaturity alone, or primary to diseases other than of M early infancy (774, 776) F
	Aetiological	group			96		, in the second	natal group (including	9				

	7	group G	u 0	E	Unclassified N	nmaturity, or with	Immaturity a infancy (77 Immaturity as	All other causes
Total causes mainly of postnatal origin $\{F\}$	Causes classified as infective (001–138) and others f M mainly infective in origin (340, 391–393, 470–483, 518, f 519, 690–698, 765–768) Pneumonia and bronchitis (490–493, 763, 500–502) f M f F	Gastro-enteritis (including diarrhoea of newborn) [M (571, 764) [F [F	Lack of care, neglect (including foundlings), infanticide f M (E926, E980-E985) F Other violent causes (rem. E800-E999) { F	Total causes remaining [M	Neoplasms (140–239) $\binom{M}{F}$ Other remaining causes $\binom{M}{F}$	Immaturity, or with mention of immaturity (774, 776, 760·5–773·5) \dots $\left\{ F \right\}$	Immaturity alone, or primary to diseases other than of early M infancy (774, 776) E Immaturity associated with diseases of early infancy (760·5–773·5) E	{F
5.85	0.76 0.61 3.88 3.07	0.49 0.31 0.49 0.38	0.10 0.11 0.13 0.09	1.25	0.11 0.11 0.92	9.38	3.52 3.52 3.53 3.55	15-13
1·64 1·19	0.21 0.14 1.19 0.87	0.08	0.09 0.08 0.01	0.41	0.02	9.33	4·13 3·47 5·20 3·54	8.33
0.81	0.06	0.01 0.02 0.02	0.00 0.00 0.01	0.29	0.01 0.02 0.28 0.28	8.89	3.29 3.29 4.90 3.31	6.36
0.82	0.15 0.11 0.55 0.45	0.03	0.01 0.00 0.00	0.12	0.01 0.01 0.11 0.14	0.44	0.14 0.18 0.30 0.23	1.97
3.38	0.54 0.47 2.69 2.20	0.41 0.27 0.43 0.33	0.02 0.03 0.12 0.07	0.83	0.09 0.08 0.75 0.53	0.05	0.00	6.81 5.73
0.16	0.01	00.00	0.08 00.00 00.00	0.16	0.00 0.01 0.15 0.13	5.22	2.25 2.25 1.85	2.97
0.65	0.06 0.03 0.32	0.01 0.01 0.02	0.01	0.14	0.01 0.01 0.13 0.12	3.67	1.30 1.04 2.37 1.46	3.39
1.50	0·15 0·10 1·05 0·80	0.10 0.10 0.13 0.13	0.01 0.02 0.02 0.01	0.28	0.03 0.02 0.14	0.05	0.00 0.00 0.00	2.68
1.50	0.17 0.93 0.84	0.14 0.08 0.21 0.14	0.01	0.29	0.03 0.02 0.26 0.21	10.0	00:00	2.26
1.21	0.22 0.26 0.72 0.57	0·13 0·08 0·05	0.00	0.26	0.03 0.05 0.23 0.18	0.00	00.00	1.87

neonatal periods, and from the principal causes of infant mortality; comparison of annual and quarterly rates, 1959, England and Wales Table LVII. Stillbirths per 1,000 total births, and infant deaths per 1,000 live births in the early neonatal, late neonatal and post-

			۱				۱			
		Annual		Quarterly rates	y rates		Quarte	rly rates per rates	Quarterly rates per cent of annual rates	nual
Actiological	Cause of death (and ICD No.)	rates (per 1,000 live births)	Jan. to March	April to June	July to Sept.	Oct. to Dec.	Jan. to March	April to June	July to Sert.	Oct. Dec.
Stillbirths (late fi	Stillbirths (late foetal deaths at or over 28 weeks' gestation)	20.80	21.41	21.04	20.45	20.25	103	101	86	76
Early neonatal de Late neonatal de Post-neonatal de	Early neonatal deaths (infant deaths at ages under I week) Late neonatal deaths (infant deaths at ages I week and under 4 weeks) Post-neonatal deaths (infant deaths at 4 weeks and under I year)	13.59 2.29 6.34	13.59 2.73 8.58	13.56	12.96 2.08 4.52	14.28 2.26 6.74	100	100 90 87	95 91 71	105
Infant deaths (to	Infant deaths (total under 1 year)	22.22	24.90	21 - 14	19.55	23.27	112	95	88	105
	Congenital malformations (750–759) Total causes mainly of prenatal and natal origin, other than congenital malformations	4.54	4.60	4.49	4.44	4.63	101	66	96	102
Prenatal and natal group (including congenital	Intraceanial and spinal injury at birth (760) Other birth injury (including maternal antepartum hac Postnatal asphyxia and atolectasis (762) Eryttriouted to maternal toxaemia (769) Eryttroblastosis (770) Haemorrhagic disease of mewborn (771)	0.53 3.62 0.18 0.29 0.29 0.29	2.03 3.51 0.20 0.48 0.37 0.37	2.06 0.46 0.19 0.25 0.40	1.73 0.55 0.157 0.52 0.25 0.25	0.30 0.47 0.47	104 96 97 1111 128 128	106 101 106 106 106 100	801 106 108 108 108 108 108 108 108 108 108 108	100 104 102 103 118
	Immaturity alone, or primary to diseases other than of early infan (774, 776)	3.85	3.76	3.77	3.62	4.30	86	86	94	112
	Total causes mainly of postnatal origin	5.23	7.79	4.32	3.33	5.42	149	83	64	104
Postnatal	Causes classified as infective (001–138); others mainly infective in origin (340, 391–393, 470–483, 518, 519, 69–698, 765–768). Preumonia and bronchitis (490–493, 763, 500–502). Gastro-enteritis and diarripoea of the newborn (571, 764).	0.69 3.49 0.40	0.98 5.51 0.49	0.55 2.88 0.36	0.46 2.04 0.31	0.76 3.46 0.45	142 158 122	903	67 58 78	11,29
group	Accidental mechanical suffocation from vomit, lood, foreign body, or in cot (E921–E922)	0.44	0.54	0.39	0.33	0.50	123	68	75	114
	mian icide (E920,	0.11	0.11	0.00	0.10	0.13	100	82 55	91	118
	Total causes remaining	1.14	1.25	1.12	16.0	1.24	110	86	85	109
Unclassified	Neoplasms (140–239) Other remaining causes	0.11	0.10	0.12	0.11	0.10	91	109	100	91
Immaturity, or	mmaturity, or with mention of immaturity (774, 776, 760·5-773·5)	8.26	8.23	8.07	16.7	8.87	100	86	96	107
Immaturity al	Immaturity alone, or primary to diseases other than of early infancy (774, 776) Immaturity associated with diseases of early infancy (760 · 5-773 · 5)	3.85	3.76	3.77	3.62	4.30	98	98	94	112
All other causes		13.96	16.66	13.07	11.64	14.41	119	94	83	103
			-							

Table LVIII. Infant deaths at various ages per 1,000 live births, and combined stillbirths and infant deaths per 1,000 total births, in standard regions, conurbations, and urban and rural aggregates within regional groups, 1959, England and Wales

				Infant mo	Infant mortality per 1,000 live births	1,000 live	births				Stillbirth	Stillbirths and infant deaths. total births	ant deaths.	Rates per 1,000	r 1,000
	Total	Z Z	1		Post-	Early neonatal	y neonatal period	Pc	Post-neonatal period		Still-	Still- births (late	Still-	3	Still-
7	infant morta- lity (under 1 year)	natal morta- lity (under 4 weeks)	neonatal morta- lity (under 1 week)	lity (1 week and under 4 weeks)	lity (4 weeks and under 1 year)	Under 1 day	1 day and under 1 week	4 weeks 3 months and under under under 3 months 6 months		6 months and under 1 year	plus infant deaths under 1 year	deaths at or over 28 weeks' gesta- tion)	plus infant deaths under 1 week	deaths at 1 week and over	plus infant deaths under 4 weeks
ENGLAND AND WALES	22.22	15.87	13.59	2.29	6.34	7.58	00.9	2.42	2.11	1.81	42.56	20.80	34.11	8 - 45	36.34
Jrban and rural aggregates: Conurbations	23.03	16.50	14.17	2.34	6.53	8.12	6.05	2.47	2.31	1.75	42.84	20.28	34.16	89.8	36-45
Areas outside conurbations: Urban areas with populations of 100,000 and over	23.21	16.27	14.02	2.24	\$6.9	7.67	6.35	2.61	2.31	2.03	44.43	21.72	35.44	8.99	37.63
50,000 areas with populations of	22.23	15.79	13.65	2.13	6.45	7.63	6.03	2.48	2.04	1.92	42.86	21.09	34.46	8.40	36.54
So,000	22.10	15.69	13.32	2.37	6.41	7.24 6.91	5.58	2.58	2.06	1.77	43.22	21.60	34.63	8.59	36.95
NORTH OF ENGLAND															,
legions: Northern East and West Ridings North Western Total	25·16 24·32 25·24 24·96	17.98 16.68 17.83	15.04 14.18 15.04 14.79	2.50 2.79 2.79 47.79	7.17 7.63 7.41	88.8.25 8.325 8.325	6.87 5.94 6.59 6.47	2.58 2.90 2.89	2.55 2.32 2.83 2.61	2.04 2.18 1.68 1.91	47·02 44·68 47·84 46·73	22.43 20.87 23.18 22.33	37·14 34·76 37·87 36·80	9.89 9.92 9.97 9.93	40.01 37.21 40.60 39.48
onurbations:	26.79 25.26 25.08 26.37 25.69	18.78 17.48 17.43 19.09 18.04	15.27 14.94 14.77 15.89 15.16	3.51 2.53 3.20 88 88	8.01 7.78 7.56 7.27 7.64	75.9 % % % % % % % % % % % % % % % % % % %	7.70 5.91 6.91	2.69 3.08 3.16 2.92	3.26 2.68 3.03 2.76 2.91	2.07 2.02 1.90 1.35	48.42 45.62 47.52 48.17 47.35	222 2222 2236 224 234 245 255 256 257 257 257 257 257 257 257 257 257 257	37.15 35.52 37.44 37.93	11.26 10.10 10.24 10.29	40.58 38.00 40.04 41.06 39.87
Areas outside conurbations: Urban areas with populations of 100,000 and over	24.57	17-41	14.80	2.61	7.16	7.87	6.92	2.92	2.14	2.10	47.49	23.50	37.95	9.54	40.50
1 Trhan areas with populations under	24.43	17.94	14.70	3.24	6.49	8.16	6.54	2.70	2.27	1.51	45.32	21-42	35.80	9.52	38.98
S0,000 Rural districts	24.73	16.64	14.07	2.57	8.09	7.45	6.62	3.27	2.88	1.94	47.37	23.22	36.97	10.41	39.47

Rates per 1,000	Still-	plus infant deaths under 4 weeks	36.03 39.08 31.85 35.96	38.87	34.51	34.96	36.13	32.67		32·04 31·12 33·08	32.12	34.40	35.64	31.23
	Infant	deaths at 1 week and over	8 6 7 7 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	9.18	80.80	8 · 14	7.50	7.10		7·19 7·38 7·09	7.22	7.82	7.19	7.38
fant deaths.	Still-	plus infant deaths under 1 week	33.90 36.95 30.03 33.92	36.57	32.44	33.44	34.16	30.85		30·14 29·19 31·31	30.26	32.81	34.06	29.22 28.81
Stillbirths and infant deaths.	Still- births (late	deaths at or over 28 weeks' gestation)	21.19 22.88 18.52 21.04	22.50	19.42	20.91	20.89	17.87		18.57 18.05 19.70	18.82	20.04	21.58	18.30
Stillbirt	Still-	plus infant deaths under 1 year	42.58 45.69 36.81 42.05	45.75	41.32	41.57	41.66	37.95		37.33 36.57 38.41	37.48	40.63	41.26	36.60
	11	6 months and under 1 year	2.03 1.98 1.90	2.14	1.99	2.32	1.66	1.58		1.96 1.67 1.54	1.70	2.27	1.84	1.57
	Post-neonatal period	weeks 3 months 6 months and and under under under months 6 months 1 year	2:36 2:42 1:60 2:15	2.63	2.49	2.17	1.96	1.68		1.46 1.60 1.69	1.59	1.74	1.61	1.53
	Po	4 weeks and under 3 months	2:30 2:36 1:78 2:16	2.27	2.46	2.27	2.03	2.13		1.98 2.28 2.21	2.17	2.35	2.30	2.37
e births	onatal	1 day and under 1 week	5.99 6.89 5.37 6.16	6.92	5.71	5.89	6.63	5.57		5.23 4.99	4.74	5.32	4.94	4.42
: 1,000 live	Early neonatal	Under 1 day	6.99 7.51 6.35 7.00	7.48	7.56	06.9	6.93	7.65		6.56 7.30 6.85	6.92	7.72	7.81	6.70
Infant mortality per 1,000 live births	Post- neonatal	lity (4 weeks and under 1 year)	6.69 6.76 5.05 6.22	7.04	6.94.	6.75	5.65	5.38		5.39 5.43	5.46	6.37	5.74	5.47
Infant mo		lity (1 week and under 4 weeks):	2.18 2.18 2.08	2.35	2.11	1.56	2.01	1.85		1.93 1.96 1.80	1.90	1.61	1.61	2.05
	-	=	12.98 14.40 11.73	14.39	13.27	12.79	13.56	13.22		11.79 11.34 11.84	11.66	13.04	12.75	11.12
	, and a	natal morta- lity (under 4 weeks)	15.16 16.58 13.59 15.24	16.74	15.38	14.35	15.57 14.06	15.07		13.72 13.30 13.65	13.56	14.65	14.36	13.17
	F	infant morta- lity (under 1 year)	21.85 23.34 18.64 21.45	23.78	22.33	21.10	21.22 19.58	20.45		19.11 18.86 19.08	19.02	21.02	20.11	18.64
			MIDLANDS AND EASTERN Regions: North Midland Midland Eastern Total	Conurbation: West Midlands	Areas outside conurbation: Urban areas with populations of	50,000 and under 100,000	So,000 Rural districts	GREATER LONDON	SOUTH OF ENGLAND	Regions: London and South Eastern (excluding Greater London) Southern	Total	Urban areas with populations of	50,000 and under 100,000	So,000 Rural districts

23 9.75 45.43	75 9.95 46.96 09 9.18 41.26		17 13.58 61.11	35 10.21 48.00
26-33 42-23	27.34 43.75 23.59 38.09	25.61 41.	32.98 59.17	28.21 44.35
86.15	2.30 1.68 53.70 27.34 1.85 2.02 47.27 23.59	51.96	72.74 32.98	54.56
1.77	1.68	1.41	3.01	2.18
2.18	2.30	3.39	3.01	1.69
77.2	2.95	2.83	6.02	
60.8	8.52	9.04	18.05	7.57
8.23	8.35	7.35	9.03	9.04
6.72	6.93	7.63	12.04	6.75
3.29	3.25	3.01	2.01	3.76
16.33	16.87	16.39	27.08	16.61
1 19.62 16.33	20.17	19.41	29.09	20.37
26.34	27.10	27.04	41.12	27.12
WALES (including Monmouthshire)	Wales I (South East) Wales II (remainder)	Urban areas with populations of 100,000 and over	750,000 and under 100,000	S0,000 Survey of the stricts Solutions and the stricts Solutions and stricts Solutions and stricts

Table LIX. Infant deaths per 1,000 live births in regional groups from the principal causes of infant mortality; regional group rates as percentages of corresponding national rates, 1959, England and Wales

cent	Wales	119	127	129	112	147	164	29	79	97	112	114	94	93	200
Regional group rates per cent of England and Wales rate	South of England	88	06	92	83	102	00	111	96	98	92	86	79	77	001
egional gro	Midlands and Eastern	76	86	94	104	96	94	1111	102	98	92	87	101	104	04
24	North of England	112	108	109	113	68	107	83	108	128	118	110	124	122	200
	Wales	26.34	5.77	14.53	2.18	0.78	5.94	0.12	0.38	0.28	0.45	4.40	4.90	29.0	0.07
births	South of England	19.70	4.09	10.40	1.62	0.54	3.18	0.20	0.46	0.25	0.37	3.78	4.12	0.53	10.0
Rates per 1,000 live births	Midlands and Eastern	21.45	4.45	10.60	2.02	0.51	3.39	0.20	0.49	0.25	0.37	3.36	5.28	0.72	0.00
Rates p	North of England	24.96	4.90	12.33	2.21	0.47	3.89	0.15	0.52	0.37	0.47	4.25	6.49	0.84	0.00
	England and Wales	22.22	4.54	11.30	1.95	0.53	3.62	0.18	0.48	0.29	0.40	3.85	5.23	69.0	10.0
	Cause of death (and ICD No.)	All causes	Congenital malformations (750-759)	Total causes mainly of prenatal and natal origin otder than congenital malformations	Intracranial and spinal injury at birth (760)	Other birth injury (including maternal antepartum haemorrhage) (761)	Postnatal asphyxia and atelectasis (762)	Attributed to maternal toxaemia (769)	Erythroblastosis (770)	Haemorrhagic disease of newborn (771)	Ill-defined diseases of early infancy (773)	Immaturity alone, or primary to diseases other than of early infancy (774, 776)	Total causes mainly of postnatal origin	Causes classified as infective (001-138) and others mainly infective in origin (340, 391-393, 470-483, 518, 519, 690-698, 765-768)	Tuberculosis, other than tuberculous meningitis (001-008, 011-019)
	Aetiological group					Prenatal	group (including	congenital malformations)						Postnatal	

20	1	152	25	62	75	88	130	130	18	2	100	45	131	114	111
06	8	78	100	75	58	82	62	2	73	109	96	118	92	988	87
90	80	104	100	100	133	101	82	93	136	127	86	91 86	91	94	100
130	180	113	100	138	117	121	152	139	100	73	108	91	111	110	113
0.05	1	0.35	0.03	0.05	60.0	3.08	0.52	0.57	0.03	0.07	1.14	0.05	10.86	4.40	15.47
60.0	0.03	0.18	80.0	90.0	20.0	2.85	0.25	0.28	80.0	0.12	1.09	0.13	7.60	3.78	12.10
0.10	0.04	0.24	0.08	80.0	0.16	3.53	0.33	0.41	0.15	0.14	1.12	0.10	7.51	3.36	13.95
0.13	60.0	0.26	80.0	0.11	0.14	4.24	19.0	19.0	0.11	80.0	1-23	0.10	9.17	4.92	15.78
0.10	0.05	0.23	80.0	80.0	0.12	3.49	0.40	0.44	0.11	0.11	1.14	0.11	8.26	3.85	13.96
Septicaemia, skin and subcutaneous tissue infections and sepsis of newborn (053, 690-698, 765-768)	Whooping cough and measles (056, 085)	Meningococcal infections and non-meningococcal meningitis (057, 340)	Causes classified as infective not specified above (rem. 001-138)	Otitis media and mastoiditis, empyema and pleurisy (391–393, 518, 519)	Acute upper respiratory infections, and influenza (470-475, 480-483)	Pneumonia and bronchitis (490-493, 763, 500-502)	Gastro-enteritis (including diarrhoea of newborn) (571, 764)	Accidental mechanical suffocation from vomit, food, foreign body, or in cot (E921-E925)	Lack of care, neglect (including foundlings), infanticide (E926, E980-E985)	Other violent causes (rem. E800-E999)	Total causes remaining	Neoplasms (140–239) Other remaining causes	Immaturity, or with mention of immaturity (774, 776, 760-5-773-5)	Immaturity alone, or primary to diseases other than of early infancy (774, 776) Immaturity associated with diseases of early infancy (760.5-773.5)	
				Doctor	group-(conid.)							Unclassified	Immaturity, or w	Immaturity al (774, 776) Immaturity ass	All other causes

Table LX. Trend of stillbirths per 1,000 total births, and of deaths in the neonatal, and post-neonatal periods per 1,000 live births*, in standard regions, 1955 to 1959, England and Wales

			Rates 195	in each	n year 959		Rate per c	es in 19	56 to rate in	1959 1955
		1955	1956	1957	1958	1959	1956	1957	1958	1959
	ENGLAND AND WALES	23.5	22.9	22.5	21.5	20 · 8	97	96	91	89
	NORTH OF ENGLAND	25.3	24.7	25.0	23 · 5	22 · 3	98	99	93	88
Stillbirths	Northern East and West Ridings North Western	24·7 24·8 26·0	24·8 22·7 25·8	25·6 23·5 25·7	23·0 22·7 24·4	22·4 20·9 23·2	100 92 99	104 95 99	93 92 94	91 84 89
(at or over 28 weeks'	MIDLANDS AND EASTERN	23.3	23.2	21.9	21.7	21.0	100	94	93	90
gestation) per 1,000 total births	North Midland Midland Eastern	24·3 24·5 20·7	24·8 24·1 20·4	22·0 23·0 20·4	22·9 23·0 18·8	21·2 22·9 18·5	102 98 99	91 94 99	94 94 91	87 93 89
	SOUTH OF ENGLAND	20.2	20 · 4	19.9	18 · 8	18.4	101	99	93	91
	London and South Eastern Southern South Western	19·5 20·5 22·2	19·3 20·9 23·3	19·6 19·3 21·4	18·7 17·4 20·4	18·0 18·1 19·7	99 102 105	101 94 96	96 85 92	92 88 89
	WALES (including Monmouthshire)	28 · 3	26.8	25.8	26.3	26.3	95	91	93	93
	ENGLAND AND WALES	17.3	16.8	16.5	16.2	15.9	97	95	94	92
	NORTH OF ENGLAND	19-2	18.7	17.7	18-1	17.5	97	92	94	91
	Northern East and West Ridings North Western	21·3 17·3 19·2	18·9 18·5 18·6	18·6 17·2 17·5	18·6 17·2 18·4	18·0 16·7 17·8	89 107 97	87 99 91	87 99 96	85 97 93
	MIDLANDS AND EASTERN	16.7	16.6	16.2	15.4	15.2	99	97	92	91
Neonatal mortality per 1,000 live births	North Midland Midland Eastern	17·0 18·0 14·6	16·9 17·6 14·8	16·4 17·6 14·1	15·8 16·9 13·1	15·2 16·6 13·6	99 98 101	96 98 97	93 94 90	89 92 93
nve on this	SOUTH OF ENGLAND	15.4	14.8	14.9	14.5	14.3	96	97	94	93
	London and South Eastern Southern South Western	15·2 15·8 15·5	14·6 15·0 15·0	14·8 14·8 15·7	14·4 14·8 14·7	14·7 13·3 13·6	96 95 97	97 94 101	95 94 95	97 84 88
	WALES (including Monmouthshire)	20.8	20.6	20.0	18.9	19.6	99	96.	91	94
	ENGLAND AND WALES	7.6	6.9	6.7	6.4	6.3	91	88	84	83
	NORTH OF ENGLAND	9.0	8.2	8 · 1	7.3	.7.4	91	90	81	82
	Northern East and West Ridings North Western	9·9 8·9 8·7	8·2 7·7 8·4	8·2 7·8 8·3	7·0 7·2 7·6	7·2 7·6 7·4	83 87 97	83 88 95	71 81 87	73 85 85
	MIDLANDS AND EASTERN	7.7	6.8	6.5	6.2	6.2	88	84	81	81
Post-neonatal mortality per 1,000 live births	North Midland Midland Eastern	8·7 8·1 6·0	7·4 7·2 5·8	6·6 7·0 5·7	6·8 6·7 5·0	6·7 6·8 5·0	85 89 97	76 86 95	78 83 83	77 84 83
Tive offths	SOUTH OF ENGLAND	5.9	5.6	5.2	5.4	5.4	95	88	92	92
	London and South Eastern Southern South Western	6·0 5·8 5·7	5·7 5·6 5·2	5·1 5·4 5·3	5·2 5·5 6·2	5·4 5·6 5·4	95 97 91	85 93 93	87 95 109	90 97 95
	WALES (including Monmouthshire)	10.6	8.2	8.4	7.6	6.7	77	79	72	63

^{*} Rates prior to 1957 per 1,000 related live births.

	Total attributed,	associated with, maternal causes		3,617 3,396 3,565 3,627 3,302	3,042 2,831 2,626	2,475	2,065	2,083 2,084 2,114 1,927 1,621	1,599 1,368 1,058 903 821	686 624 623 567 520	499 461 426 372
		Total associated mortality		911 713 828 747 712	611 689 530	478	424	405 412 494 435 361	390 308 247 176 201	160 161 123 115	125 128 98 82
		Associated with noirious		F 929.47.	70 104 81	49	56	47 49 52 19	21 10 10 10 10 10	0%1-27	9941
		Associated with maternal caus other than abortion		834 623 731 683 638	541 585 449	429	368	358 363 383 342	353 264 231 157 180	151 153 121 116 108	119 122 75 75
		Total* maternal mortality	640–689	2,706 2,683 2,737 2,880 2,590	2,431 2,142 2,096	1,997	1,641	1,678 1,672 1,620 1,492 1,260	1,209 1,060 1,060 727 620	526 463 495 446 405	374 333 328 290
		noittodA smrof lls	650-652	448 470 486 513 464	420 369 354	354	268	325 313 321 313 233	157 143 125 118 103	107 90 76 76 66	52 61 74
	Spontaneous and other	Without mention sisqss lo	Rem. 650, 652	140 139 144 118 108	109	79	92	82428	244 332 181	41 21 21 21	, 163 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Abortion	Sponta	vith sepsis	Rem. 651	229 262 257 295 262	242 176 173	167	116	145 175 166 168 109	30,855	48225	20 18 27 16
Ab	Criminal aborti n	Without mention sisqss 10	650·2 652·2	27 23 33 30 30 30 30	24 28 26	28	33	21 12 15 15	204012	24 28 15 15	1220
	Crimapor	With sepsis	651.2	52 46 67 64	49 56 54	80	43	66 76 75 65 65	250 250 250 250 250	33 10 17 17	20 115 113
	1	Total maternal causes other than abortion	640-648	2,258 2,213 2,251 2,367 2,126	2,011 1,773 1,742	1,643	1,373	1,353 1,359 1,299 1,179 1,027	1,052 917 686 609 517	419 419 370 339	302 272 265 243
		Other causes	Rem. 640-648 660-689				124	122 133 112 112 92	91 77 85 65 66	55 53 57	58 46 47 51
		Trauma, shock: other complic	673–675 676–678	507 514 533 537 507	455 457 503	467	111	109 94 106 87 72	83 60 54 60	37 443 441 23	15 23 20 26
	ıı	Prolonged labou	673–675				125	155 158 165 176 148	11.7 11.0 69 69 42	38 32 31 31 31	34 21 18
		Тохаетіа	642, 685, 686	494 511 508 538 488	\$10 \$10 472	478	398	381 410 375 328 321	359 312 249 199 185	147 164 164 164 164	93
		Postpartum haemorrhage	671, 672)24042	02 07 12	179	180	210 198 187 179 158	162 156 115 90 38	£8.83 44 14	233325
		Апсератит раетотраде	643, 644, 670	3333	300	117	106	101 87 86 84 68	85 44 44 44	33 33 34 34 34 34 34 34 34 34 34 34 34 3	33 27 25 21
		Puerperal sepsia	640, 641, 681	712 628 694 800 647	561 347 277	248	195	141 151 132 105 82	2623333	10 17 17 17	138
	,siti br	Puerperal phleb thrombosis an embolism	682, 684	215 226 206 188 192	183 152 178	154	134	134 128 136 107 86	102 110 67 56 62	52 49 51 55	30 23 32 32
			ICD No.	1931 1932 1933 1934 1935	1936 1937 1938	1939	1940	1941 1942 1943 1944 1945	1946 1947 1948 1949 1950	1951 1952 1953 1954 1955	1956 1957 1958 1959

	Total attributed	to, or associated with,	causes		549 530 589 582 529	483 446 407	387	337	347 300 249 232 232	190 152 133 121 115	38899	70 622 86 49
ATED MATERNAL MORTALITY	The second secon	Total	associated		138 111 137 120	97 108 82	75	69	68 70 52 52	334 224 284 284	23 17 17 18	17
ATED M		чэ	w betsicossA noittods		24201	111	00	6	∞r∞r≈	4W0WW		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ASSOCIATED		rnses	Associated wind maternal can other than abortion		127 97 121 110 102	952	19	09	62628	48828	1722	170
		Total*	maternal mortality	640-689	411 419 452 462 415	386 337 324	313	268	280 248 230 193 180	143 117 102 97 87	76 71 71 59	52 45 43 38
tion)			noittodA smroi lls	650–652	68 73 80 82 74 74	67 58 55	55	4	54 45 41 33	61994	551110	08889
ding abor		Spontaneous and other	Without mention sisqss 10	Rem. 650, 652	22 22 19 119	17 16	12	12	200000	nn44w	00000	7777
m, inclu	tion	Spont	sisqəs diiW	Rem. 651	£ 444 244 244 244 244 244 244 244 244 244	38 27 27	26	19	42423	00100	るみものか	w040
uerperin	Abortion	Criminal	Without mention sisqss lo	650.2	44555	444	4	5	40077	70-76	44040	4447
rth and p		Crim	sisqə s diiW	651.2	8 L 6 11 01	∞0.∞	13	7	10100	N44W4	10m0-0	w0~0
MORTALITY (complications of pregnancy, childbirth and puerperium, including abortion)		I.	Total materna causes othe than aborti	640-648	343 346 372 380 341	319 279 270	257	224	226 202 184 153 147	125 102 86 81 81 72	94.04.05 24.05 25.	32 32 32
pregnan			Other causes	Rem. 640–648 660–689				20	20 15 13 13	110000	r-∞∞∞∞	4668
ations of		k: lication	Trauma, shoc other comp of delivery	829-929	88 88 88 81 81	727	73	18	81 112 110	10 7 8 8	พอพอต	чесе
(complic		Jnoc	Prolonged lab	673–675 676–678				20	533338	47.8000	NN4NN	N4W0
FALITY			Тохаетія	642, 685, 686	27 80 80 87 87	81 80 73	75	65	64 53 45 46	43 35 27 26	20 20 15 13	E10 06 7
		92	Postpartum haemorrhag	671, 672		20.00.00	28	29	35 23 23 23 23	01 7 7 7 7 7 7 7	00700	ww4w
MATERNAI		98	Antepartum gsdriomasd	643, 644, 670	05252	848	18	17	17	000000	NWON4	N466
MA		sis	Puerperal sep	640,	108 115 128 104	89 55 43	39	32	25 25 25 27 27 27	04444	22000	2222
			Puerperal phl thrombosis msilodma	682, 684	335 33	24 28 28	24	22	22 01 01 12 12	222820	1-00/1-00	44%4
				ICD No.	1931 1932 1933 1934 1935	1936 1937 1938	1939	1940	1941 1942 1943 1944 1945	1946 1947 1948 1949 1950	1951 1952 1953 1954 1955	1956 1957 1958 1959

Table LXIII. Maternal mortality: Deaths attributed to or associated with abortion, 1931 to 1959, England and Wales

-								
	Spontan induce therapeut		non-the	ced for erapeutic sons	Total attributed to abortion	Others associated	Total attributed to, or associated	Percentage of deaths due to abortion
	With sepsis	Without sepsis	With sepsis	Without sepsis*		with abortion	with, abortion	which had mention of sepsis
1931	229	140	52	27	448	77	525	63
1932	262	139	46	23	470	90	560	66
1933	257	144	56	29	486	97	583	64
1934	295	118	67	33	513	64	577	71
1935	262	108	64	30	464	74	538	70
1936	242	105	49	24	420	70	490	69
1937	176	109	56	28	369	104	473	63
1938	173	101	54	26	354	81	435	64
1939	167	79	80	28	354	49	403	70
1940	116	76	43	33	268	56	324	59
1941	145	90	66	24	325	47	372	65
1942	175	62	64	12	313	49	362	76
1943	166	64	76	15	321	57	379	75
1944	168	63	75	7	313	52	367	78
1945	109	50	65	9	233	19	253	75
1946	69	42	41	5	157	37	194	70
1947	54	49	37	3	143	44	184	64
1948	55	32	34	4	125	16	139	71
1949	58	31	20	9	118	19	137	66
1950	39	18	25	21	103	21	124	62
1951 1952 1953 1954 1955	34 28 22 22 22 19	14 15 13 19 15	33 19 17 10 17	26 28 24 25 15	107 90 76 76 66	9 8 7 5 7	116 98 83 81 75	63 52 51 42 56
1956	20	16	20	16	72	6 6 4 7	78	56
1957	18	13	15	15	61		67	54
1958	27	16	8	12	63		67	56
1959	16	8	13	10	47		54	62

^{*} Deaths due to attempted abortion, formerly classed to accidental causes, are included for years 1950 onwards.

Table LXIV. Death rates from maternal causes* (including abortion) per 100,000 total births† in England and Wales and four regional groups,‡ 1921 to 1959

thshire)	Other	368 368 355 339	329 414 372 334	334 423 369 386 362	312 321 333 351	250 266 207 205 170	219 183 146 136 103
Wales (including Monmouthshire)	Sepsis	167 175 159 158 158	164 207 180 196	178 169 206 275 227	205 133 124 86	90 108 85 98 97	61 17 33
(includin	Total	535 543 542 514 497	492 578 579 558 530	513 591 575 661 589	517 454 457 437	339 374 292 303 267	279 226 163 173 136
and	Other	210 201 189 222 212	203 225 1193 179	195 210 218 205 190	176 185 160 161	149 171 156 139	112 105 80 67 67
South of England	Sepsis	128 1128 1128 134	140 144 157 170 168	152 152 154 130	104 69 75 58	72 82 67 71 53	222 222 223 234
Sou	Total	338 330 344 344	343 343 363 347	350 345 370 320	280 254 235 219	222 223 223 210 180	153 108 92 90 90
astern	Other	2022 2022 1392 139	227 220 207	202 223 206 206 209	208 192 199 188	170 180 177 151 112	125 101 73 74
Midlands and Eastern	Sepsis	115 120 126 130 155	154 148 161 150 173	147 151 169 199 160	123 90 72 70	282 72 83 50 80	24 26 21 16
Midla	Total	333 339 339 368	377 361 373 370 380	352 374 385 405 370	331 283 271 259	252 258 248 214 162	169 113 119 119
and	Other	292 267 286 284 297	296 300 275 293	275 270 304 290 262	283 254 240 239	211 220 174 167 149	142 115 94 85 81
North of England	Sepsis	158 154 136 173	179 173 186 194 203	170 171 193 204 172	153 109 102 88	82 83 79 67	28 25 21 23
ION	Total	450 440 460 460 460	475 473 472 469 496	446 440 494 434	436 364 342 327	294 304 266 246 216	200 152 119 106 104
/ales	Other	253 252 251 251 251	252 254 252 243 238	235 249 257 247 232	231 219 211 210	186 196 171 155 133	131 112 91 78 76
and and Wales	Sepsis	138 138 139 156	160 157 172 173 184	159 155 175 195 161	134 94 86 75	81 83 77 73 59	22,42
England	Total	391 381 390 408	412 411 425 416 422	395 404 432 441 394	365 313 297 284	268 280 229 192	180 1143 102 97
		:::::	:::::	:::::	::::	:::::	: : : : :
		1921 1922 1923 1924	1926 1927 1928 1929	1931 1932 1933 1934	1936 1937 1938	1940 1941 1942 1943	1945 1946 1947 1948

		,
1114 104 52 77	62 47	44
190000	22 19 21	14
155 123 94 94	81 88 88	57
92884	988 888	33
16 11 119 119	15 9 13	12
57 7 8 8 0 8 0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0	55 46 46	45
75 55 50 50 50 50 50 50 50 50 50 50 50 50	44 35	22
24 13 13 15 15 15 15 15 15 15 15 15 15 15 15 15	112	92
24 64 74 74 74 74	56 57 45	39
69 77 57 57	55 47 38	30
12223	21 12 9	13
228%8	76 59 47	43
%8%8% %8%8%	36	32 28
21 20 16 16 14	1131	10
82 72 75 70	64 56 47	38
:::::	:::	::
:::::	:::	::
1950 . 1951 . 1952 . 1953 .		1958

* Note. The deaths shown for each year in this table are based on the method of classification in use at the time, the International List Numbers being as follows: 1921-30, Total=Nos. 140, 145) of the 4th Revision (1929) List; 1930-37, Total=Nos. 140-150 (Sepsis=Nos. 140, 145) of the 4th Revision (1929) List; 1930-37, Total=Nos. 640-689 (Sepsis=Nos. 640, 641, 651, 681, 682, 684) of the 6th Revision (1948) List; 1950-37, Total=Nos. 640-689 (Sepsis=Nos. 640, 641, 651, 681, 682, 684) of the 6th Revision (1948) List; 1958 onwards, 7th Revision (1955) List, Nos. as for 1950-57. Deaths due to criminal abortion are excluded from this table for years prior to 1940.

‡ The composition of the three English groups is as follows: North of England: Northern, East and West Ridings and North Western Regions; Midlands and Eastern: North Midland, Midland, and Eastern, South of England: London and South Eastern, Southern and South Western Regions. † 1921-28, registered live births only; 1929-38, registered live and still births; 1939 onwards, live and still birth occurrences.

Table LXV. Deaths of women certified as due to pregnancy or childbearing, by age and cause, 1959, England and Wales

-									
ICD No.	Cause of death	All ages	Under 20	20-	25-	30-	35-	40-	45 and over
640-648	Complications of pregnancy	96	4	16	33	14	19	10	
640	Pyelitis and pyelonephritis of pregnancy	2			1	1		_	
641	Other infections of genito-urinary tract								
	during pregnancy	1			.1			_	_
642	Toxaemias of pregnancy	50	2	8	16	9	8	7	
643	Placenta praevia				_				
644	Other haemorrhage of pregnancy	3	1		1	1			
645	Ectopic pregnancy	12		1	4	1	6	-	
646	Anaemia of pregnancy	1		1					
647	Pregnancy with malposition of foetus in	اند							
0.,	uterus								
648	Other complications arising from								
	pregnancy	27	1	6	10	2	5	3	
650-652	Abortion	47	î	11	13	6	11	5	
650	Abortion without mention of sepsis or				10	ŭ			
000	toxaemia	16		5	6	1	2	2	
651	Abortion with sepsis	29	1	6	6	4	9	3	
652	Abortion with toxaemia, without mention			ŭ					
	of sepsis	2			1	1			
660	Delivery without mention of complication	4			2	1	1		
670-678	Delivery with specified complication	85	1	13	23	22	17	9	
670	Delivery complicated by placenta praevia								
	or antepartum haemorrhage	18		2	4	6	3	3	
671	Delivery complicated by retained placenta	3		1	-	2	-		
672	Delivery complicated by other post-								
	partum haemorrhage	20		2	7	4	5	2	
673	Delivery complicated by abnormality of								
	bony pelvis	1		1	-				
674	Delivery complicated by disproportion								
	or malposition of foetus	7			3	1	1	2	_
675	Delivery complicated by prolonged								
	labour of other origin	10		3	1	4	2		
676	Delivery with laceration of perineum,								
	without mention of other laceration			_		 —		_	
677	Delivery with other trauma	7			2	3	2		
678	Delivery with other complications of								
	childbirth	19	1	4	6	2	4	2	
680–689	Complications of the puerperium	58	3	11	16	10	13	4	1
680	Puerperal urinary infection without other								
601	sepsis			_					
681	Sepsis of childbirth and the puerperium	14	-	2	5	5	-	2	-
682	Puerperal phlebitis and thrombosis	19	1	3	5	3	6	1	
683	Pyrexia of unknown origin during the								
684	puerperium	11	_	_		-			4
685	Puerperal pulmonary embolism	11		1	4	1	4	1	1
686	Puerperal eclampsia	6		3	1	-	1	1	
687	Other forms of puerperal toxaemia	1	1	1	-	1	1		
688	Cerebral haemorrhage in the puerperium	3	1	1		1	-	_	
000	Other and unspecified complications of	4	1	1	1		1		
689	the puerperium	4	1	1	1		1		
(Deliveries and complications of pregnancy,								
640-648	childbirth, and the puerperium (exclud-								
660-689	ing abortion)	243	8	40	74	47	50	23	1
640-689	Deliveries and complications of pregnancy,	243	0	70	/-4	7/	50	23	1
040 009	childbirth, and the puerperium (includ-								
	ing abortion)	290	9	51	87	53	61	28	1
		270		-	0,		OI.	20	
-									

Note: $Excludes\ 21$ cases in which it was stated that death followed the maternal condition after an interval of more than 12 months.

Table LXVI. Deaths of women not classed to pregnancy or childbearing, but certified as associated therewith, 1959, England and Wales

ICD No.	Cause of death	All	15-	20-	25-	30-		40-	45 and over
002 046 · 1 063 081	Pulmonary tuberculosis	1 1 1	1			1 1 —	<u>-</u> -		Silver and the second
140–199 204·3 214	Malignant neoplasms Acute myeloid leukaemia Uterine fibromyoma	7 1 1	1	3	2	1 1	1	underen	
241 260 272	Asthma Diabetes mellitus Pituitary necrosis	1 1 1			1 1	<u>1</u>	_	_	Minimum or a second or a secon
330–334 340·3	Vascular lesions affecting central nervous system	4	-		2	1		1	
401 · 3 410 416	(non-meningococcal) Acute rheumatic heart disease Diseases of mitral valve Other heart disease, specified as rheumatic	1 11 11 3		1	3	1 3 1	3	1	Million hadd
420 · 1 422 · 2 434 · 4 443	Coronary artery disease Myocardial hypertrophy Pulmonary hypertension Unspecified hypertensive heart disease	1 1 1			1 1 -		1 1		
444 445 452 463 465	Essential benign hypertension	1 1 1 1 1		1	1 1			1	Simulation of the same of the
466 480 481 491	Thrombophlebitis of calf veins Influenza with pneumonia Influenza	1 4 1 5		1 2 - 1	_ _ _ 3	_ _ 1 1	2		
500-502 526 527 · 1 572 · 2	Bronchopneumonia Bronchitis Bronchiectasis Emphysema, without mention of bronchitis Pulmonary fibrosis (idiopathic)	1 1 1		1 - 1	1 1	1	1	1	Salarania Salarania
541 · 0 560 · 0	Ulcer of duodenum, without mention of perforation Inguinal hernia, without mention of	1			1	_	_ 1		
561 571 572·2 585	obstruction Hernia of abdominal cavity with obstruction Gastro-enteritis Ulcerative colitis Cholangitis without mention of calculi	1 2 1 1 1		1 1 - 1		_ _ 1		1	
592 603 630 · 1	Chronic nephritis Renal necrosis Inflammation of uterus	1 1 1	-		<u>-</u>	1 _	1		Similarian Signification
745 754	Kyphoscoliosis Congenital malformations of circulatory system Cystic disease of kidney	1 3 1	1	2		-		_	_
757·1 E800– E999	Accidents, poisonings, and violence	4	1	_	1	_	2	spenning	
	Total	82	5	17	22	17	16	5	-
Associated	l with abortion (included above)	7	_	2	2	2	1		

Table LXVII. Tuberculosis of the respiratory system: Death rates per million living, by sex and age, 1931 to 1959, England and Wales

	0-	5-	10-	15-	20-	25-	35-	45-	55-	65-	75 and over
					Male	0					
1931–35	85	42	64	490	963	961	1,140	1,368	1,176	723	275
1936–40	61	20	44	366	742	785	937	1,210	1,216	718	296
1941–45	76	24	34	339	581	674	811	1,114	1,203	741	295
1946	68	22	23	239	481	615	687	1,020	1,165	768	340
1947	77	15	29	241	500	632	679	1,034	1,213	812	267
1948	56	10	14	211	445	603	633	961	1,166	881	334
1949	33	6	13	127	368	496	591	869	1,153	927	380
1949*	34	7	14	127	366	497	592	869	1,159	937	400
1950*	38	9	8	78	229	395	428	751	1,024	891	411
1951*	30	7	7	46	171	292	364	636	978	953	464
1952*	15	4	10	35	102	201	287	503	829	843	447
1953*	14	4	3	18	71	156	214	413	712	814	445
1954*	9	2	1	13	55	130	192	370	643	778	406
1955*	3	1	1	8	30	93	151	307	535	705	420
1956*	7	1	2	7	14	71	113	231	456	640	463
1957* 1958* 1959*	3 3 4		2 2 -	3 6 2	12 13 6	40 38 31	105 85 73	193 166 141	410 401 325	605 572 528	436 416 480
					Female	s					
1931–35	74	43	143	840	1,138	911	646	475	394	306	170
1936–40	55	24	98	658	1,016	759	511	377	339	272	160
1941–45	72	24	76	591	916	692	427	304	26 9	220	123
1946	60	25	69	468	842	662	382	261	242	207	119
1947	70	24	63	502	899	730	411	267	249	224	133
1948	52	19	53	462	812	702	367	255	235	218	105
1949	33	9	30	349	684	622	348	253	245	229	127
1949* 1950* 1951* 1952*	33 29 25 18	10 8 8 8 5	30 15 14 6	351 199 108 58	682 429 278 169	622 444 347 230	348 273 238 166	254 229 192 131	249 212 180 148	236 212 198 150	139 144 135 159
1953*	17	5	3	32	122	174	146	116	130	162	140
1954*	11	2	3	31	84	143	145	104	107	137	117
1955*	6	2	4	12	56	113	101	84	95	111	115
1956*	4	1	—	6	35	80	79	62	70	111	125
1957*	4	1	-	6 6 2	12	70	75	53	55	80	91
1958*	3	1	1		14	48	58	51	69	99	101
1959*	4	1	1		7	33	44	46	53	86	95

^{*} According to the Seventh (1955) Revision of the International List. Throughout the rest of the table rates are according to the Fifth (1938) Revision.

Table LXVIII. Tuberculosis of the respiratory system: Notification rates* per 100,000 living, by sex and age, 1938 to 1959, England and Wales

		All ages	0-	5	15-	25-	35-	45-	65 and over
				7	Males				
1938	•••	108	20	42	141	137	136	136	52
1939		98	17	32	132	124	124	125	46
1940		104	17	29	145	146	128	123	43
1941		115	20	33	154	155	148	141	50
1942		117	22	38	165	148	153	142	49
1943		119	27	40	166	144	154	152	50
1944		122	30	41	180	158	142	149	56
1945	•••	118	32	40	178	160	135	142	53
1946		119	32	46	179	174	125	138	54
1947		118	40	53	193	163	116	137	56
1948		117	44	51	215	161	117	139	64
1949		119	46	49	180	159	122	146	68
1950	•••	111	53	49	159	154	107	135	67
1951		115	53	48	170	156	117	141	72
1952		112	52	51	165	147	116	135	77
1953		110	49	49	155	133	114	139	85
1954		100	41	40	143	125	106	126	82
1955 1956 1957 1958 1959	•••	92 88 82 76 70	36 29 26 25 21	34 28 23 21 17	125 115 99 89 70	110 101 97 86 79	96 92 90 81 79	121 121 114 108 102	81 87 87 87 87 89
				Fe	males				
1938		77	18	42	175	129	72	42	19
1939		71	15	33	166	116	68	37	18
1940		70	17	30	168	120	66	35	16
1941		76	19	33	185	126	69	41	19
1942		78	20	34	204	130	70	37	18
1943		83	26	40	209	142	73	40	18
1944		86	26	40	227	150	75	38	16
1945		81	26	41	223	140	69	34	16
1946		80	28	49	213	141	65	35	16
1947		83	33	51	235	146	66	35	17
1948		86	46	58	244	151	68	35	17
1949		85	44	53	238	155	71	35	17
1950	•••	82	43	52	238	152	69	31	16
1951		81	50	52	229	149	68	33	16
1952		80	49	53	216	148	71	35	16
1953		77	45	52	201	141	73	34	18
1954		68	37	44	187	124	63	30	17
1955	•••	60	35	38	156	112	59	30	17
1956		55	30	31	139	101	57	29	18
1957		49	30	27	116	90	55	29	17
1958		43	25	24	97	79	47	26	17
1959		39	22	19	83	69	49	25	16

^{*} Notifications of tuberculosis used in this and subsequent tables for 1956 onwards are those returned to the General Register Office, and not, as in previous years, those returned to the Ministry of Health. There is a small but insignificant difference between the figures from the two sources. Cases of unstated age are omitted for 1956 onwards.

Table LXIX. Tuberculosis of the respiratory system: Ratio of deaths to 100 notifications*, by sex and age, 1938 to 1959, England and Wales

			Mal	les					Fema	ales		
	All	0-	15	25-	45	65 and over	All	0-	15-	25-	45-	65 and over
1938 1939	 60 67	13 14	38 38	60 64	85 96	112 133	55 59	16 19	45 46	60 65	80 93	115 124
1940 1941 1942 1943 1944	 65 59 52 53 48	15 20 13 13 11	35 33 27 25 22	61 55 48 48 44	100 87 78 81 76	139 121 121 121 121 110	64 59 50 46 42	23 26 18 16 15	53 48 39 35 30	68 65 55 51 47	96 81 79 73 70	139 110 106 102 111
1945 1946 1947 1948 1949	 48 47 47 46 42	11 10 9 6 4	22 18 17 16 13	44 42 45 43 38	76 78 81 75 68	118 119 116 112 112	44 43 44 39 35	16 12 12 8 5	31 31 30 27 22	51 51 54 49 43	76 72 74 71 71	117 110 114 107 114
1950 1951 1952 1953 1954	 38 33 27 23 23	4 3 2 2 1	9 6 4 3 2	31 24 19 15 14	64 55 47 38 38	111 112 93 82 80	28 22 16 14 14	4 3 2 2 1	13 9 5 4 3	33 27 18 15 15	70 56 40 36 35	116 110 96 85 77
1955 1956 1957 1958 1959	 21 19 18 18 17	0 1 1 1 1	2 1 1 1 1	12 10 8 7 7	33 27 25 25 25 22	76 67 63 60 58	12 10 10 11 9	1 0 1 1 1	2 2 1 1 1	13 10 10 9 7	29 23 19 23 19	66 66 51 60 55

^{*} See footnote to Table LXVIII.

Table LXX. Tuberculosis of the respiratory system: Death rates per million living, by sex and age, and notifications* per 100 deaths in standard regions, conurbations, and urban and rural aggregates within regional groups, 1959, England and Wales

				1 2 2											4	
				Males							remaies				Fel	Persons
	All	-0	5-	15-	25-	45-	65 and over	All	-0	7	15-	25-	45-	65 and over	All	Notifica- tions per 100 deaths
ENGLAND AND WALES	120	4	1	4	52	220	512	36	4	1	2	38	49	06	77	703
Urban and rural aggregates: Conurbations	137	9	.1.	2	09	250	622	300	,	~	6.7	41	46	103	85	811
Areas outside conurbations: Urban areas with populations of 100,000 and over	141	• 1	1	14	200	250	929	48	}	1	٧,	39	78	125	. 93	603
50,000 and under 100,000	115	1	1	50	63	226	412	32	1	1	4	30	59	59	72	704
So,000 Rural districts	106	, m	: 1	2	37	189	431	32	000	1-	∞ <i>4</i>	37	41	77	62	672 558
NORTH OF ENGLAND																
Regions: Northern East and West Ridings North Western	141 130 147	111	11] on	63 52 73	317 207 284	517 656 565	2 44 45 45 45 45 45 45 45 45 45 45 45 45 4	15	401	0/10	64 54 56	47 58 41	885 105 97	986	648 557 768
Conurbations: Tyneside Vest Yorkshire South East Lancashire Merseyside	159 132 163 176	: 1111	.1111		87 96 74	294 247 316 364	694 560 594 865	346	171	158	10	80 80 80	45 56 37 80	94 102 105 135	95 86 97 114	901 624 509 1,341
Areas outside conurbations: Urban areas with populations of	164	1	1	01	99	268	839	62	i		17	49	72	190	=	509
50,000 and under 100,000		ļ	1	15	77	246	407	37	1	ı	1	55	99	39	80	620
So,000 Rural districts	114	-	1 1	gane	40	212	488 406	398	200	11	27	53	35.33	51	72	656 452
M. C C Land Land Land Land Land Land Land Land										-	-	-			· management on the contract of the contract o	

* See footnote to Table LXVIII.

Table LXX—continued

Females Females Females Females Females Females 15- 25- 45- 65 and All 150 100 15- 100 15- 100
All ages Permales Permales All ages 0- 5- 15- 25- 45- 65 and ages 38 - 4 4 21 41 55 57 31 7 - 4 4 21 41 45 86 81 32 - - - - - - 46 -
Fermales 5- 15- 25- 45- 65 and ages - 15- 25- 45- 65 and ages - 16- 25- 45- 65 and ages - 10- 25- 46- 86- - 10- 25- 46- 86- - 10- 25- 46- 83- - 10- 25- 46- 83- - 10- 27- 46- 83- - 13- 31- 41- 40- 54- - 10- 27- 48- 67- 49- - 2 31- 45- 99- 74- - 2 31- 45- 99- 74- - 3 40- 55- 97- 59- - - 3 37- 49- 89- - - - 37- 49- 89-
25- 45- 65 and All ages 37
C5 and All Cover C5 and All Cover C5 and All C5 and All C5 and C5
All ages 83 857 74 74 74 74 74 74 74 74 74 74 74 74 74

Table LXXI. Tuberculosis of the respiratory system: Notification rates* per 100,000 living, by sex and age, in standard regions, 1959, England and Wales

All	54		59	48	69	42	52	37	80	15	13	51	62	99
						,	,	,,,	1,	7	7		4,	
65 and over	16		16	10	25	11	13	13	19	11	16	17	18	15
45-	25		29	20	36	21	17	20	27	22	20	28	27	31
25-	59		64	47	83	47	52	4	59	55	54	99	59	84
15-	83		101	72	112	70	79	09	85	89	64	82	68	99
-5	19		27	16	18	17	25	12	18	91	17	59	28	31
9	22		24	14	22	16	29	6	27	18	91	40	43	31
All	39		46	31	52	32	36	28	40	33	32	4	4	46
65 and over	68		88	85	114	50	74	62	107	79	63	122	116	134
45-	102		107	96	138	92	96	62	110	84	82	113	102	143
25-	97		85	92	86	09	81	57	98	71	64	78	75	85
15-	70		89	99	08	65	89	47	92	45	52	78	82	69
7	17		21	14	19	17	23	15	15	10	12	25	29	14
0	21		24	15	19	16	25	14	26	22	18	32	32	33
All	70		72	99	00 00	53	89	47	79	57	55	79	92	88
	:		:	:	:	÷	:	:	:	:	:	:	:	
	GLAND AND WALES	tandard regions:	Northern	East and West Ridings	North Western	North Midland	Midland	Eastern	London and South Eastern	Southern	South Western	Wales	Wales I (South East)	Wales II (remainder)
	0- 5- 15- 25- 45- 65 and All ages 0- 5- 15- 25-	All ages 0- 5- 15- 25- 45- 65 and over ages 0- 5- 15- 25- 45- 65 and over over over ages 70 21 17 70 79 102 89 39 22 19 83 59 25 16	All ages 0- 5- 15- 25- 45- over ages 0- 5- 15- 25- 45- over 39 22 19 83 59 25 16	All ages 0- 5- 15- 25- 45- 65 and All 0- 5- 15- 25- 45- 65 and 3 ages 0- 5- 15- 25- 45- 65 and 3 ages 0- 5- 15- 25- 45- 165 and 0 ages 0- 5- 15- 25- 45- 16	All ages 0- 5- 15- 25- 45- 65 and ages All ages 0- 5- 15- 25- 45- 65 and over ages 0- 5- 15- 25- 45- 65 and over ages 70 21 17 70 79 102 89 39 22 19 83 59 25 16 <td>All O- 5- 15- 25- 45- 65 and over ages All O- 5- 15- 25- 45- 65 and over ages O- 5- 15- 25- 45- 65 and over ages 70 21 17 70 79 102 89 39 22 19 83 59 25 16 </td> <td>All O- 5- 15- 25- 45- 65 and over ages All O- 5- 15- 25- 45- 65 and over ages All B Ap- 5- 15- 25- 45- 65 and over ages Ap- 5- 15- 25- 45- 65 and over ages <td>All 0- 5- 15- 25- 45- 65 and over ages All 0- 5- 15- 25- 45- 65 and over ages All All<td>All 0- 5- 15- 25- 45- 65 and over All ages 0- 5- 15- 25- 45- over over over ages 0- 5- 15- 25- 45- over over over ages 0- 5- 15- 25- 45- 65 and over </td><td>All 0- 5- 15- 25- 45- 65 and over ages All 0- 5- 15- 25- 45- 65 and over ages O- 5- 15- 25- 45- 65 and over ages 70 21 17 70 79 102 89 39 22 19 83 59 25 16 12 24 21 68 85 107 88 46 24 27 101 64 29 16 66 15 14 66 76 96 85 31 14 16 72 47 20 10 88 19 19 80 98 138 114 52 22 18 11 11 68 23 66 76 74 36 25 79 79</td><td>All All All<td>All O- 5- 15- 25- 45- 65 and over ages O- 5- 15- 25- 45- 65 and over ages 70 21 17 70 79 102 89 39 22 19 83 59 25 16 72 21 68 85 107 88 46 24 27 101 64 29 16 66 15 14 66 76 96 85 31 14 16 77 47 20 10 66 17 86 138 114 52 22 18 112 83 36 25 68 23 60 76 50 79 25 18 11 13 68 23 62 25 25 17 <</td><td>All O- 5- 15- 25- 45- 65 and ages O- 5- 15- 25- 45- 60°cr ages O- 5- 15- 25- 45- 60°cr ages O- 5- 15- 25- 45- 60°cr 39 39 22 19 83 59 25 16 Overr 72 24 21 68 85 107 88 46 24 27 101 64 29 16 66 15 14 66 76 86 85 114 52 22 18 112 87 25 16 11 68 19 19 89 13 14 52 22 18 11 11 11 11 27 14 16 47 20 11 47 47 <</td><td>All 0- 5- 15- 25- 45- 65 and over All A</td></td></td></td>	All O- 5- 15- 25- 45- 65 and over ages All O- 5- 15- 25- 45- 65 and over ages O- 5- 15- 25- 45- 65 and over ages 70 21 17 70 79 102 89 39 22 19 83 59 25 16	All O- 5- 15- 25- 45- 65 and over ages All O- 5- 15- 25- 45- 65 and over ages All B Ap- 5- 15- 25- 45- 65 and over ages Ap- 5- 15- 25- 45- 65 and over ages <td>All 0- 5- 15- 25- 45- 65 and over ages All 0- 5- 15- 25- 45- 65 and over ages All All<td>All 0- 5- 15- 25- 45- 65 and over All ages 0- 5- 15- 25- 45- over over over ages 0- 5- 15- 25- 45- over over over ages 0- 5- 15- 25- 45- 65 and over </td><td>All 0- 5- 15- 25- 45- 65 and over ages All 0- 5- 15- 25- 45- 65 and over ages O- 5- 15- 25- 45- 65 and over ages 70 21 17 70 79 102 89 39 22 19 83 59 25 16 12 24 21 68 85 107 88 46 24 27 101 64 29 16 66 15 14 66 76 96 85 31 14 16 72 47 20 10 88 19 19 80 98 138 114 52 22 18 11 11 68 23 66 76 74 36 25 79 79</td><td>All All All<td>All O- 5- 15- 25- 45- 65 and over ages O- 5- 15- 25- 45- 65 and over ages 70 21 17 70 79 102 89 39 22 19 83 59 25 16 72 21 68 85 107 88 46 24 27 101 64 29 16 66 15 14 66 76 96 85 31 14 16 77 47 20 10 66 17 86 138 114 52 22 18 112 83 36 25 68 23 60 76 50 79 25 18 11 13 68 23 62 25 25 17 <</td><td>All O- 5- 15- 25- 45- 65 and ages O- 5- 15- 25- 45- 60°cr ages O- 5- 15- 25- 45- 60°cr ages O- 5- 15- 25- 45- 60°cr 39 39 22 19 83 59 25 16 Overr 72 24 21 68 85 107 88 46 24 27 101 64 29 16 66 15 14 66 76 86 85 114 52 22 18 112 87 25 16 11 68 19 19 89 13 14 52 22 18 11 11 11 11 27 14 16 47 20 11 47 47 <</td><td>All 0- 5- 15- 25- 45- 65 and over All A</td></td></td>	All 0- 5- 15- 25- 45- 65 and over ages All 0- 5- 15- 25- 45- 65 and over ages All All <td>All 0- 5- 15- 25- 45- 65 and over All ages 0- 5- 15- 25- 45- over over over ages 0- 5- 15- 25- 45- over over over ages 0- 5- 15- 25- 45- 65 and over </td> <td>All 0- 5- 15- 25- 45- 65 and over ages All 0- 5- 15- 25- 45- 65 and over ages O- 5- 15- 25- 45- 65 and over ages 70 21 17 70 79 102 89 39 22 19 83 59 25 16 12 24 21 68 85 107 88 46 24 27 101 64 29 16 66 15 14 66 76 96 85 31 14 16 72 47 20 10 88 19 19 80 98 138 114 52 22 18 11 11 68 23 66 76 74 36 25 79 79</td> <td>All All All<td>All O- 5- 15- 25- 45- 65 and over ages O- 5- 15- 25- 45- 65 and over ages 70 21 17 70 79 102 89 39 22 19 83 59 25 16 72 21 68 85 107 88 46 24 27 101 64 29 16 66 15 14 66 76 96 85 31 14 16 77 47 20 10 66 17 86 138 114 52 22 18 112 83 36 25 68 23 60 76 50 79 25 18 11 13 68 23 62 25 25 17 <</td><td>All O- 5- 15- 25- 45- 65 and ages O- 5- 15- 25- 45- 60°cr ages O- 5- 15- 25- 45- 60°cr ages O- 5- 15- 25- 45- 60°cr 39 39 22 19 83 59 25 16 Overr 72 24 21 68 85 107 88 46 24 27 101 64 29 16 66 15 14 66 76 86 85 114 52 22 18 112 87 25 16 11 68 19 19 89 13 14 52 22 18 11 11 11 11 27 14 16 47 20 11 47 47 <</td><td>All 0- 5- 15- 25- 45- 65 and over All A</td></td>	All 0- 5- 15- 25- 45- 65 and over All ages 0- 5- 15- 25- 45- over over over ages 0- 5- 15- 25- 45- over over over ages 0- 5- 15- 25- 45- 65 and over	All 0- 5- 15- 25- 45- 65 and over ages All 0- 5- 15- 25- 45- 65 and over ages O- 5- 15- 25- 45- 65 and over ages 70 21 17 70 79 102 89 39 22 19 83 59 25 16 12 24 21 68 85 107 88 46 24 27 101 64 29 16 66 15 14 66 76 96 85 31 14 16 72 47 20 10 88 19 19 80 98 138 114 52 22 18 11 11 68 23 66 76 74 36 25 79 79	All All <td>All O- 5- 15- 25- 45- 65 and over ages O- 5- 15- 25- 45- 65 and over ages 70 21 17 70 79 102 89 39 22 19 83 59 25 16 72 21 68 85 107 88 46 24 27 101 64 29 16 66 15 14 66 76 96 85 31 14 16 77 47 20 10 66 17 86 138 114 52 22 18 112 83 36 25 68 23 60 76 50 79 25 18 11 13 68 23 62 25 25 17 <</td> <td>All O- 5- 15- 25- 45- 65 and ages O- 5- 15- 25- 45- 60°cr ages O- 5- 15- 25- 45- 60°cr ages O- 5- 15- 25- 45- 60°cr 39 39 22 19 83 59 25 16 Overr 72 24 21 68 85 107 88 46 24 27 101 64 29 16 66 15 14 66 76 86 85 114 52 22 18 112 87 25 16 11 68 19 19 89 13 14 52 22 18 11 11 11 11 27 14 16 47 20 11 47 47 <</td> <td>All 0- 5- 15- 25- 45- 65 and over All A</td>	All O- 5- 15- 25- 45- 65 and over ages O- 5- 15- 25- 45- 65 and over ages 70 21 17 70 79 102 89 39 22 19 83 59 25 16 72 21 68 85 107 88 46 24 27 101 64 29 16 66 15 14 66 76 96 85 31 14 16 77 47 20 10 66 17 86 138 114 52 22 18 112 83 36 25 68 23 60 76 50 79 25 18 11 13 68 23 62 25 25 17 <	All O- 5- 15- 25- 45- 65 and ages O- 5- 15- 25- 45- 60°cr ages O- 5- 15- 25- 45- 60°cr ages O- 5- 15- 25- 45- 60°cr 39 39 22 19 83 59 25 16 Overr 72 24 21 68 85 107 88 46 24 27 101 64 29 16 66 15 14 66 76 86 85 114 52 22 18 112 87 25 16 11 68 19 19 89 13 14 52 22 18 11 11 11 11 27 14 16 47 20 11 47 47 <	All 0- 5- 15- 25- 45- 65 and over All A

* See footnote to Table LXVIII.

Table LXXII. Tuberculosis of the respiratory system: Ratio of deaths to 100 notifications*, by sex and age, in standard regions, 1959, England and Wales

			Deaths	per 100) notific	ations		
		M:	ales			Fem	ales	
	15-	25-	45-	65 and over	15	25-	45-	65 and over
ENGLAND AND WALES	1	7	22	58	1	. 7	19	55
Standard regions Northern East and West Ridings North Western North Midland Midland Eastern London and South Eastern Southern South Western Wales (including Monmouthshire) Wales I (South East) Wales II (remainder)		7 7 7 6 8 5 6 4 6	30 22 21 23 27 20 17 23 18	59 77 50 79 80 54 50 55 46	1 1 0 1 1 - 0 - 1 1 1 - 0	10 11 7 4 7 6 5 4 7	16 29 11 20 31 23 18 24 27	55 103 39 50 81 64 49 50 61 50 43

^{*} See footnote to Table LXVIII.

Table LXXIII. Tuberculosis of the respiratory system: Standardised Mortality Ratios and standardised notification ratios*, by sex, in standard regions, conurbations, and urban and rural aggregates, 1959, England and Wales

	Ma	iles	Fen	nales
	S.M.R.	S.N.R.	S.M.R.	S.N.R.
ENGLAND AND WALES	100	100	100	100
Regions and conurbations:				
Northern	123 138 117	105 151 89	122 105 128	116 174 95
East and West Ridings West Yorkshire Conurbation Remainder of East and West Ridings	108 106 110	94 110 84	126 123 128	81 85 78
North Western South East Lancashire Conurbation Merseyside Conurbation Remainder of North Western	123 137 164 93	127 91 284 83	109 101 171 87	136 94 298 87
North Midland	77	77	69	82
Midland	119 136 103	99 123 76	109 94 124	92 107 78
Eastern	60	68	86	73
London and South Eastern Greater London Remainder of London and South Eastern	94 98 82	112 123 80	94 93 96	104 110 86
Southern	84	83	73	87
South Western	63	79	107	86
Wales (including Monmouthshire) Wales I (South East) Wales II (remainder)	150 149 151	114 109 126	103 111 84	114 112 121
Urban and rural aggregates: Conurbations Areas outside conurbations:	117	131	104	124
Urban areas with populations of 100,000 and over Urban areas with populations of 50,000	120	108	134	99
Urban areas with populations of 50,000 and under 100,000 Urban areas with populations under 50,000 Rural districts	96 86 77	94 84 60	88 87 89	95 88 71

^{*} See footnote to Table LXVIII.

Table LXXIV. Non-respiratory tuberculosis: Death rates per million living, by sex and age, 1938 to 1959, England and Wales

					Males				1	Females		
			All	0-	15-	25-	45 and over	All	0-	15-	25-	45 and over
1938–40. 1941–45.		•••	117 131	221 236	136 195	79 98	67 62	93 96	201 213	121 141	59 59	46 45
1947 . 1948 . 1949 .	• • •	•••	93 87 72 62 47	180 179 134 107 75	120 96 79 69 44	60 53 45 41 34	54 52 52 46 40	75 73 62 47 40	165 153 130 92 76	107 109 84 60 54	50 48 41 34 22	35 35 34 29 29
1952 . 1953 . 1954 .	•••	•••	44 33 24 21 17	70 43 29 16 11	38 27 17 15 12	33 23 18 18 14	37 36 30 30 26	37 24 21 17 13	69 38 30 13 14	44 25 18 15 5·3	21 16 12 12 8·5	30 23 23 22 18
1957 . 1958 .	• • •	•••	13 12 12 8·7	7·3 7·2 5·4 6·0	4·4 6·5 7·1 2·1	11 11 9·4 6·3	20 19 20 15	11 12 9·5 8·1	5·6 8·6 5·8 4·5	7·6 6·5 3·2 2·8	9·2 8·0 6·1 5·4	16 17 16 13

Table LXXV. Non-respiratory tuberculosis: Notification rates* per million living, by sex and age, 1938 to 1959, England and Wales

				Males					Female	s	
		All	0-	15-	25-	45 and over	All	0-	15-	25-	45 and over
1938–40		290	744	341	151	72	264	641	403	172	61
1941–45		269	698	326	148	64	261	632	413	178	63
1946	•••	217	569	250	123	53	210	518	334	149	47
1947		202	518	227	114	54	196	455	317	144	51
1948		197	505	243	99	53	199	473	333	138	46
1949		171	423	211	93	50	174	399	304	127	40
1950		151	350	186	93	48	164	343	288	139	39
1951	•••	149	327	196	98	48	159	314	300	131	46
1952		135	275	196	91	50	146	272	242	135	54
1953		122	233	163	85	59	133	224	240	129	51
1954		109	192	149	93	48	133	199	245	140	56
1955		96	145	154	85	48	109	144	203	126	48
1956	•••	87	121	131	83	49	98	113	188	118	49
1957		76	91	119	74	49	93	103	162	121	46
1958		70	75	106	82	44	83	77	142	111	50
1959		58	53	86	71	40	67	55	114	88	46

^{*} See footnote to Table LXVIII.

Table LXXVI. Mass miniature radiography: Number of examinations of person examined, 1959,

(The total numbers of examinations have been

Category of person examined	Males											
	Under 14	14	15	20-	25-	35-	45-	55-	60-	65 and over	Not stated	All
Out-patients and in-patients of hospitals	80	20	430	540	1,520	1,300	1,950	990	640	1,040	30	8,540
H.M. Forces intakes		80	5,680	33,770	590	40	20	_	_		20	40,200
School children (Mantoux test)	2,530	2,050	790	water	_		, amendes	_		_		5,370
School children (School groups)	12,410	16,680	25,870	160	_	_	_				10	55,130
Contacts (Mantoux test)	440	180	360	290	190	470	270	70	40	10	-	2,320
Other contacts	2,700	830	3,120	1,740	3,140	2,610	1,740	620	300	340	50	17,190
Persons covered by special surveys	820	690	30,100	23,140	51,350	47,540	44,340	16,770	11,510	19,140	200	245,600
Persons in prisons, borstals, etc	110	110	3,470	2,930	3,310	2,110	1,310	560	280	1,060	10	15,260
Persons in factories/offices (General surveys)	granata.	70	90,200	106,320	236,120	232,030	199,630	72,110	41,910	12,910	330	990,910
General public volunteers	4,060	2,640	36,040	37,220	94,150	91,210	82,360	31,480	20,870	30,020	500	430,550
Ante-natal cases												
Psychiatric hospitals	410	120	1,760	2,500	5,650	7,870	8,380	3,410	2,630	5,120	520	38,370
Total	23,560	23,470	197,820	208,610	396,020	385,180	340,000	126,010	77,460	69,640	1,670	1,849,440
Persons referred by general practitioners	3,800	810	7,530	8,950	19,160	18,640	20,220	9,280	7,520	7,930	40	103,880
Total (all groups)	27,360	24,280	205,350	217,560	415,180	403,820	360,220	135,290	84,980	77,570	1,710	1,953,320

made by mass radiography units, by sex, age, and category England and Wales

derived from a 10 per cent sample of record cards)

					Fema	iles						Persons	Category of
Under 14	14	15-	20-	25-	35-	45	55-	60-	65 and over	Not stated	All ages	All ages	person examined
30	· 20	500	790	1,490	1,820	2,030	840	700	1,140	20	9,380	17,920	Out-patients and in- patients of hospitals
·	_	10	10		_			_	_		20	40,220	H.M. Forces intakes
2,410	2,130	590						en.c.m			5,130	10,500	School children (Mantoux test)
10,500	15,530	20,160	150	_		-		-	_		46,340	101,470	School children (School groups)
; 370	150	280	180	330	590	300	40	20	30	— ·	2,290	4,610	Contacts (Mantoux test)
3,580	1,180	3,120	2,140	2,760	2,700	2,110	740	340	530	20	19,220	36,410	Other contacts
890	950	33,570	29,760	56,300	60,200	55,810	22,780	18,130	29,670	380	308,440	554,040	Persons covered by special surveys
20	50	320	130	160	320	230	100	80	640	10	2,060	17,320	Persons in prisons, borstals, etc.
	180	125,420	111,190	93,500	87,670	74,520	21,310	7,190	2,720	290	523,990	1,514,900	Persons in factories/offices (General surveys)
4,630	2,890	54,990	56,940	114,240	118,580	99,160	36,240	25,600	28,350	160	541,780	972,330	General public volunteers
10		3,920	13,170	18,070	4,150	90	_		_	20	39,430	39,430	Ante-natal cases
410	60	1,230	1,850	4,050	5,160	6,930	3,640	3,250	8,610	420	35,610	73,980	Psychiatric hospitals
22,850	23,140	244,110	216,310	290,900	281,190	241,180	85,690	55,310	71,690	1,320	1,533,690	3,383,130	Total
3,010	940	10, 410	12,120	20,110	18,140	13,790	5,530	4,130	5,880		94,060	197,940	Persons referred by general practitioners
25,860	24,080	254,520	228,430	311,010	299,330	254,970	91,220	59,440	77,570	1,320	1,627,750	3,581,070	Total (all groups)

Table LXXVII. Mass miniature radiography: (a) Numbers of cases of respiratory radiography units, (b) rates per 1,000 examinations, by sex, age, and

Category of							M	ales					
person examined	1	Under 14	14	15-	20-	25-	35	45-	55-	60-	65 and over	Not stated	All
Out-patients and in patients of hospital	- { (a) s { (b)				1.9	2·6	1.5	4 2·1	1.0	_	1.9		14 1·6
H.M. Forces intakes	{(a) (b)	_	_	7 1·2	53 1·6	1.7			=	_		_	61 1·5
School children (Mantoux test)	{(a) (b)	1.2	0.5		_		_	_	_	_	=		0.7
School children (School groups)	{(a) (b)	0.2	6 0·4	0.3	_		_	_	=	_		_	17 0·3
Contacts (Mantoux test)	{(a) (b)	4:5		_	_	5·3	4.3	_	_		100.0	_	2.6
Other contacts	{(a) (b)	4 1·5	_	5 1·6	7 4·0	19 6·1	11 4·2	3 1·7	3.2	3.3	8.8	20.0	56 3·3
Persons covered by special surveys	{(a) (b)	2 2 2 4	_	21 0·7	35 1·5	108 2·1	121 2·5	154 3·5	69 4·1	50 4·3	94 4·9	_	654 2·7
Persons in prisons, borstals, etc.	{(a) (b)	_	_	_	2.7	17 5·1	29 13·7	22 16·8	10 17·9	28.6	12 11·3	_	106 6·9
Persons in factories/ offices (General surveys)	}(a) (b)		_	53 0·6	114 1·1	268 1·1	255 1·1	289 1·4	118 1·6	83 2·0	24 1·9	3.0	1,205 1·2
General public volunteers	{(a) (b)	0.5	0.4	33	56 1·5	159 1·7	152 1·7	163 2·0	91 2·9	55 2·6	78 2·6	_	790 1 · 8
Ante-natal cases	{(a) (b)												
Psychiatric hospitals	{(a) (b)		=	0.6	0.4	14 2·5	14 1·8	19 2·3	14 4·1	9 3·4	17 3·3	=	89 2·3
Total	{(a) (b)	16 0·7	0.3	128 0·6	275 1·3	591 1·5	586 1·5	654 1·9	305 2·4	206 2·7	231 3·3	1.2	3,002 1·6
Persons referred by general practitioners	s {(a) s {(b)	1.1	4.9	49 6·5	89 9·9	218 11·4	172 9·2	224 11·1	133 14·3	88 11·7	110 13·9	=	1,091 90·5
Total (all groups)	{(a) (b)	20 0·7	12 0·5	177 0·9	364 1·7	809 1·9	758 1·9	878 2·4	438 3·2	294 3·5	341 4·4	1.2	4,093 2·1

uberculosis requiring treatment or close clinic supervision observed by mass ategory of person examined, 1959, England and Wales

_		_											
					Femal	es						Persons	Category of
Jnder 14	14	15-	20-	25-	35-	45-	55-	60-	65 and over	Not stated	All ages	All	person examined
11	_	2.0	2.5	1.3	0.5	1.0	_	2.9	-	_	10 1·1	24 1·3	(a) Out-patients and in- (b) patients of hospitals
			100.0	manus de la constantina della	0.0	_	_	Designation of the last of the	_	_	100.0	63 1·6	(a) (b) H.M. Forces intakes
1.7	0.5			040000 040000	Special Control of the Control of th	_	_	annesses Sealentes		_	5 1·0	0·9	(a) School children (b) (Mantoux test)
0·5	0·3	10 0·5	_	terrorite terrorite	_	_		_		_	20 0·4	37 0·4	(a) School children (b) (School groups)
2.7	_		_	3.0	1.7	3.3		=	_	_	1.7	10 2·2	(a) Contacts (Mantoux (b) test)
1.1	=	11 3·5	2.8	10 3·6	3·0	0.5	2.7			_	42 2·2	98 2·7	(a) (b) Other contacts
	1.1	45 1·3	69 2·3	123 2·2	123 2·0	82 1·5	0·7	15 0·8	26 0·9	_	501 1·6	1,155 2·1	(a) Persons covered by (b) special surveys
	-	=	=	6.2	-		0		_		0.5	107 6·2	(a) Persons in prisons, (b) borstals, etc.
	_	105 0·8	129 1·2	102 1·1	84 .1·0	48 0·6	0.2	0·6	3 1·1		479 0·9	1,684	(a) Persons in factories/ offices (General surveys)
° —	0.3	70 1·3	78 1·4	184 1·6	138 1·2	66 0·7	22 0·6	26 1·0	16 0·6	_	601 1 · 1	1,391 1·4	(a) General public volunteers
_	_	7 1·8	19 1·4	15 0·8	9 2·2	_	_	_			50 1·3	50 1·3	(a) Ante-natal cases
_	_	3 2·4	=	0.7	12 2·3	0.9	0.5	0.6	12 1·4		40 1·1	129 1·7	(a) Psychiatric hospitals
14 0·6	0.3	252 1·0	304 1-4	441 1·5	377 1·3	206 0 ·9	47 0·5	49 0·9	57 0·8	_	1,755 1·1	4,757 1·4	(a) (b) Total
11 3·7	4 4.3	54 5·2	99 8·2	124 6·2	106 5·8	72 5·2	16 2·9	14 3·4	21 3·6	-	521 5·5	1,612 8·1	(a) Persons referred by (b) general practitioners
25 1·0	12 0·5	306 1·2	403 1·8	565 1·8	483 1 · 6	278 1·1	63 0·7	63 1·1	78 1·0	=	2,276 1·4	6,369	(a) Cotal (all groups)

Table LXXVIII. Mass miniature radiography: (a) Numbers, (b) rates per 1,000 examinations of non-tuberculous conditions diagnosed following examination, by sex and age, 1959, England and Wales

Persons	All	1,150	1,326	2,476	612	56	663		0.0	26	0.0	424	168	292
124	All	159	172	331 0.2	340	31	371		0.0	0.1	0.0	231	7.0	322
	Not stated a								1		1:	-		
	65 and sta	47	7.0	-1.	. 1 88	0.3	91		0.0	0.5	0.0	77		
	60- a	26 0	5.1 7	0.8	53	1.50	59		0.0	0.2	0.0	50		
	55- 6	26 0.3	38	0.7	50	6.0	55		0.0	10.0	0.0	10		
Females	45-	46	3.6	95	83	0.8	94		0.0	0.1	3:0.0	30		
Fem	35-	0.0	16 0 . 9	26	39	0.1	40		0.0	0.1	0.0	42	25	67
	25-	0.0	0.5	0.0	13		10		0.0	0.1	0.0	84		
	20-	0.0		0.0	0.0		0.0	10	0.0	0.1	0.0	ds 45		
	15-		0.1	0.0	6-0		0.0	rcoid	0.0	11	0.0	glands		
	4	sms 0.0	3 20	0.1	neoplasms			ing sa	11	0 0	47	hilar 3	15	2 - 3
	Under 14	neopla	0.3	0.0		0.7	0.1	exclud	0.0	-	0.2	nlarged	1	2
	All	Malignant neoplasms	1,154	2,145	Non-malignant	25	297	Lymphadenopathies, excluding sarcoids	0.0	14 0 . 1	0.0	including enlarged	77	270
	Not	11	11	11		11		phadeno	11	Annual section of the	11	ids,		1 1
	65 and over	258	341	599	49		55	Lym	0.1	0.1	0.1	Sarco 6		
	-09	231	234	5.5	35		0.5		11	11	11			
	55-	218	240	3.4	0.3		45		2 0.0	11	0.0	010		
Males	45-	226	1 259	1 485	80		86		3 0.0	1 0.0	0.00	14		
-	35-	7 44 0	9 3.1	5 101	9 30		1 32		000	3 0.1	0	29		
	- 25-	0.0	3 18	0 0.1	8 19	0.1	8 21 0 0·1		0.0	0	3 8 0 0 0	40 79		
	- 20-	0.0	10	0.0 0.0	0.0	0.1	0.0 0.0		500	w4	0.0	121		
	14 15-	-	0		0	1.2 0	0.0		0	0	0	2:		N.
		0.0	0.3		0.1					1.3	0.5	-		
_	Under 14			0.1		11	0.1		11			-		
		All groups, excluding persons {(a) referred by general practitioners {(b)	(a)	(a) (b)	s (b)	(E)	(E)		All groups, excluding persons ((a) referred by general practitioners ((b)	(E)	<u>a</u>	All groups, excluding persons (a) referred by general practitioners (b)	(E)	
		ns tioner	:	:	ns tioner	:	:		ns tioner	:	:	ns		: :
		persor	neral	:	persor	neral	÷		perso	neral	:	person	bneral	: :
		ding neral	by ge	3	iding neral	by ge	3		neral	by ge	(S)	uding	by ge	(§
		exclu by get	Persons referred by general practitioners	Total (all groups)	exclusy ger	Persons referred by general practitioners	Total (all groups)		by gel	Persons referred by general practitioners	Total (all groups)	, excli	Persons referred by general	Total (all groups)
		roups,	rsons referred practitioners	(all	roups	ons rel	(all		roups	rsons referred	le)	roups	rsons referred	ila)
		All gr refe	Perso	Total	D All groups, excluding persons (a) referred by general practitioners (b)	Perso	Total		All g ref	Perso	Total	All gr	Perso	Total
					126									

									1			
471	0.4	544	5,911	1,664	7,575	1,757	518 2.6	2,275		200	0.3	260
239	38	277	3,379	8.3	4,156	0.0	38	110		0.0	0.1	0.0
0.8	11	0.8	0.8	0.0	1.5	11	11	11			11	11
0.1	4.0	0.1	785	286	3.8	0.0	4.0	0.1	1	0.0	0.35	0.1
0.1	0.5	9.1	518	123	0.8 1	13	0.7	0.3		11	0.5	0.0
0.2	0.0	2.0	587	8.8 19.0 29.8	692 641 1,071 7.6 10.8 13.8	19	∞ 4	0.3		0.0	11	0.0
- 4-	9.0	30	194	122 8 8 1	3.4	0.1	1.0	36		0.0	0.53	0.0
8y8	4.0	45	360 1 · 3	3.3	420	14	7.0	0.1		11	0.1	0.0
vascular 1 53 0.2 0	0.3	59	of the vascular 75 82 216 0.3 0.4 0.7	38	254	0.0	0.1	0.0		11	11	
31 0 · 1	0.5	33	82 0.4	2.0	106	fibrosis			osis	11	11	11
45 0.2	9.0	51		-	86	ive fi	11		e fibr		11	11
3 0·1	1 1	0.1	lities 6		0.3	massive	11	11	massive fibrosis	11		11
abnormalities	1.0	18	bnorma 31 0.1	2.0	0.3	ressive	11					11
cardiac abnormalities and 0.1 0.0 -1 0.0 -1	35	267	cardiac abnormalities and abnormalities 394 617 1 2.532 3 6 5 1 8 9 0 0 6	887	3,419	Pneumoconiosis without progressive 286 256	4.6	2,165	progressive	191	53	244
malitie			malities 0.6	25.0	1.22	witho		-	with		-	
abnorra	11	11	onorm			iosis		1 1	niosi			
0.0	0.0	8 8 1 0 1	617 8.9	128 159 301 13.8 21.1 38.0	918	256 3.7	9.5	331	25	0.0	2.1	1.0
	0.1	0	394 5.1	150	553	Pneum 286	76	362		0.4	1.29	0.5
27 14 0.1 0.1	0.5	10	Acquired 561 446 1.6 3.5	13.8	574	395	90	3.6		0.3	1.2	0.4
27 0.1	8.4.0	35		159	720	547	171	718		0.1	0.6	0.2
0.1	0.5	0.1	229	3.5	294	171	3.4	234		0.0	0.2	0.0
37	0.53	0.1	151	2.8	204	0.1	0.3	32	•	0.0	11	0.0
0.5	0.3	0.5	0.4	0.8	81	0.0		0.0		11	11	11
0.2	0.5	0.5	49	1.2	58	0.0		0.0		11	11	11
0.4		10	0.1	3.7	0.5	11	11	11			11	11
0.3	0.5	0.3	0.3	0.5	0.3	11	11	1 1			1]	11
<u>e</u>	9	<u>e</u>	(e)	(e)	<u>e</u>	<u>e</u> 9	(6g)	<u>ea</u>	3	BB	<u>e</u>	<u>3</u>
Il groups, excluding persons (a) referred by general practitioners ((b)	:	:	ners.	::	:	All groups, excluding persons referred by general practitioners	::	:		referred by general practitioners ((b)	::	:
All groups, excluding persons referred by general practitio	eral 		sons	ral 	:	sons		:		ctitio	ral :-	:
al pra	gen		All groups, excluding persons referred by general practition	Persons referred by general practitioners		ig per	Persons referred by general			al pra	Persons referred by general practitioners	
cludi	practitioners	(sdr	cludii	practitioners	(sdr	cludin	ed by	(sdi	1	gener	ed by	(sdr
s, ex	eferr	Total (all groups)	s, ex	eferr	Total (all groups)	s, exe	eferre	Total (all groups)		by ex	rsons referred by practitioners	Total (all groups)
group	ons r actiti	[a]]	group	ons r	l (all	group	ons r	d (all		ferred	ons ractiti	ll (all
All	Pers	Tota	All g	Pers	Tota	All g	Pers	Tota	A 11	rel	Pers	Tota
100							127					

Table LXXIX. Deaths from cancer by sex and age according to histological type and death rates per million living, 1959, England and Wales

	All ages	0-	15	35	45	55	65 and over
			Numbe	r of dea	ths		
All malignant neoplasms { M (140-205)	51,783 45,334	416 364	830 785	1,703 2,226	6,406 6,065	14,251 9,855	28,177 26,039
Carcinoma $\left\{ egin{array}{ll} M \\ F \end{array} \right.$	45,495 39,908	20 23	273 395	1,178 1,811	5,345 5,283	12,780 8,663	25,899 23,733
Glioma $$ ${M \choose F}$	872 669	62 58	80 76	118 91	274 153	231 191	107 100
Sarcoma $$ ${M \choose F}$	924 1,009	80 84	134 82	77 85	155 166	177- 202	301 390
Reticuloses $$ $\begin{cases} M \\ F \end{cases}$	2,791 2,389	241 188	322 206	275 179	411 300	601 503	941 1,013
Undefined $$ $\left\{ egin{array}{ll} M \\ F \end{array} \right.$	1,701 1,359	13	21 26	55 60	221 163	462 296	929 803
		Death 1	rates per	million	persons	living	
All malignant neoplasms (140-205)	2,140	75	138	625	1,929	4,629	10,098
Carcinoma	1,882	4	57	475	1,644	4,117	9,244
Glioma	34	12	13	33	66	81	39
Sarcoma	43	16	19	26	50	73	129
Reticuloses	114	41	45	72	110	212	364
Undefined	67	2	4	18	59	146	323

Table LXXX. Cancer (ICD Nos. 140-205): Sex and age specific death rates per million living from cancer at various sites and the percentage of mortality at each site to "all sites", 1959, England and Wales

Males

	Per cent of all sites	1.5	6.0	2.6	15.3	7.2	5.9	1.2	4.0	1.2	35.1	0.1	6.9	0.4	0.3	1.4	3.9
	85 and over	656	256	856	2,744	2,144	1,789	189	933	300	1,378	56	3,833	1	144	44	1,100
	75-	486	214	643	2,986	1,859	1,492	244	762	263	3,211	24	2,696	14	81	192	883
	-69-	176	108	331	1,925	836	729	138	200	143	4,171	13	882	20	23	131	207
	55-	43	47	127	863	323	272	63	238	78	2,849	7	154	5	12	93	204
	45-	14	17	37	294	108	83	20	11	- 18	912	2	16	6	2	39	52
I	35-	رى	4	00	65	33	23	9	17	5	182	0	I	12	I	11	10
	25-	1	1	I	11	12	'n	I	0	I	24	1	1	20	0	62	0
	15-	I	1	1	I	2	I	2	1	İ	63	1	0	9	1	I	1
	5-	0	1	1	1	0	1	I	1	I	I	1	1	0	1	I	1
		1	I	1	I	1	1	2	1	1	1	1	I	I	1	2	I
ı	-0														Ì		
	All ages 0	35	22	63	362	170	140	28	95	29	831	n	164	0	7	32	92
		Lip	Oral mesopharynx	Oesophagus 63	Stomach 362	Small intestine, including duodenum 170	Rectum 140	Biliary passages and liver (stated to be primary site) 28	Pancreas 95	Larynx 29	Bronchus and trachea, and of lung specified as primary 831 Lung, unspecified as to whether primary or secondary	Breast 3	Prostate 164	Testis 9	Other and unspecified male genital organs 7	Kidney 32	Bladder and other urinary organs 92

Table LXXX—continued

Males

Per cent of all sites 100.0 8.0 2.0 0.0 2.3 0.2 0.1 9.0 2.5 0.4 85 and over 500 33 156 200 33 29 422 17,889 33 29 17,457 192 61 48 56 10 448 \$ 41 75-78 82 74 37 8 99 267 11,624 116 65-161 119 5,983 150 13 39 23 54 42 105 133 55-41 16 16 10 2,020 119 66 30 45 45-10 42 9 12 550 35-30 185 26 21 25-24 86 15-20 34 67 2 24 100 2,366 6 All 48 25 25 09 :: Malignant neoplasm of brain and other parts of nervous System System System Neoplasm of brain and other parts of nervous system Neoplasm of unspecified nature of brain and other parts Malignant neoplasm of brain and other parts of nervous malignant neoplasm Other forms of lymphoma (reticulosis) Lymphosarcoma and reticulosarcoma Multiple myeloma (plasmocytoma) Site or organ Secondary and unspecified lymph nodes Skin (malignant melanoma) Skin (malignant neoplasm) Leukaemia and aleukaemia Bone (including jaw bone) Other endocrine glands Total Mycosis fungoides Hodgkin's disease Others in Remaining sites Thyroid gland system ... Mediastinum Peritoneum system 140-205 S.S. 190 194 195 196 200 201 203 204 193 158 164 198

(able LXXXI. Cancer (ICD Nos. 140-205): Sex and age specific death rates per million living from cancer at various sites and the percentage of mortality at each site to "all sites", 1959, England and Wales

Females

Per cen of all sites	0.7	0.7	2.1	13.6	12.5	5.7	1.9	4.1	0.4	6.4	19.2	5-6	2.7	0.5	6.5	1.2
85 and over	130	73	409	2,668	2,762	1,145	295	658	57	368	2,192	399	301	29	311	259
75-	102	46	302	2,019	1,764	908	236	534	35	467	1,409	371	223	34	365	177
-69-	38	4	141	951	791	368	140	289	25	411	1,050	286	190	31	353	81
55	21	78	64	355	354	166	65	141	16	287	742	208	130	21	322	28
45-	10	13	21	126	148	89	22	42	. 00	147	551	162	. 41	12	187	6
35-	1		10	37	42	23	0	10	2	46	201	100	90	4	57	٧.
25-		m	I	10	00	9	I	2	0	10	35	20	1	2	17	0
15-	Proof	I	0	I	7	0	I	1	0	7	I	1	I	1	4	0
5	0	0	1	1	0	1	-	-	1	1	appoint	- 1	I	-	I	0
-6	1	1	1	1		1	I	en-nation .	1	1	-1	I	1	1	1	I
All	13	5	41	262	240	111	37	62	00	123	371	109	.52	10	125	23
Site or organ	Lip	Oral mesopharynx	Oesophagus	Stomach	Small intestine, including duodenum Large intestine, except rectum	Rectum	Biliary passages and liver (stated to be primary site)	Pancreas	Larynx	Bronchus and trachea, and of lung specified as primary Lung, unspecified as to whether primary or secondary	Breast	Cervix uteri	Corpus uteri	Other parts of uterus, including chorionepithelioma }	Ovary, Fallopian tube and broad ligament	Other and unspecified female genital organs
No.	140 141 142 143 143 143 144	145 146 147 148	150	151	152	154	155	157	191	162	170	171	172	173	175	176

Table LXXXI—continued

Females

Per cent of all sites	1.0	2.1	1.0	1.8	9.0	0.1	8.0	0.5	1.0	1.0	0.5	7.0	2.7	0.0	3.2	100.0	
85 and over	109	513	285	16	88	1	93	31	52	36	2	36	145	2	208	14,016	91
75-	16	308	114	19	81	2	88	40	85	33	9	57	183	2	338	10,336	35
-69-	92	144	45	28	41	'n	35	27	62	28	11	50	128	7	215	6,113	84
55-	30	09	19	78	19	I	21	21	37	24	7	31	11	I	113	3,487	108
45-	15	17	17	55	00	2	6	∞	16	13	2	13	46	I	51	1,841	83
35-	∞	62	14	33	2	2	٠, ٧	w	∞	15	2	60	28	[18	L69	41
25-	I	I	∞	18	I	I	4	I	60	18	I	I	20	0	4	199	26
15-	0	1	I	11	1	1	11	0	60	9	1	1	19	1	I	69	19
	m	1	0	15	1	I	9	I	23	I	I	1	30	1	0	63	19
9	0	I	1	23	***************************************	5	4	I	60	1	2	1	39	1	I	06	29
All	20	41	19	35	12	7	15	6	19	14	3	13	52	I	62	1,929	50
	:	:	4	sno	:	:	* ::	. : : ; ; :	:	:	:	:	:	:	:	.:	ous)
	:	:	::	brain and other parts of nervous	:	:	::	malignant neoplasm	:	:	:	:	:	:	:	:	brain and other parts of nervous ain and other parts of nervous i nature of brain and other parts
	:	:	::	parts	:	:	::	nt nec	:			:	:	:	:	:	parts c marts c mand c
an	:	us	::	d other	:	:	::	 alignar	coma	:	ulosis)	na)	:	:	:	:	d other offer offer offe
Site or organ	:	orgai	(a)	ain an	:	:	(e)		ulosai	:	(retic	ocytor	a	:	:	:	rain and in and nature
Site		ırinary	lanom	m of bra		nds .	pon	unspecified	d retic		phoma	plasm	ıkaemi				f brain
	:	other 1	ant me	oplasn		ine gla	ng jaw ssue		ma an	sease	of lym	loma (nd ale	oides	tes	Total	asm o
		r and	naligna	ant neo	d glan	endocr	includi	ritoneum ediastinum condary and lymph nodes	osarco	in's dis	orms	le mye	mia an	is fung	ning si		alignant neoplasm system nign neoplasm of system system coplasm of nervous system of nervous system
	Kidney	Bladder and other urinary organs	Skin (malignant melanoma) Skin (malignant neoplasm)	Malignant neoplasm of system	Thyroid gland	Other endocrine glands	Bone (including jaw bone) Connective tissue	Peritoneum Mediastinum Secondary and lymph nodes	Lymphosarcoma and reticulosarcoma	Hodgkin's disease	Other forms of lymphoma (reticulosis)	Multiple myeloma (plasmocytoma)	Leukaemia and aleukaemia	Mycosis fungoides	Remaining sites		Malignant neoplasm of brain and other parts of nervous system Benign neoplasm of brain and other parts of nervous system Neoplasm of unspecified nature of brain and other parts of nervous system
ICD No.	180	181	190	193	194	195	196 197	158 164 198	200	201	202	203	204	205	Others in 140-205	140-205	193 223 237

Table LXXXII. Cancer: Standardised Mortality Ratios by sex for selected sites, in standard regions, conurbations, and urban and rural aggregates outside the conurbations, 1959, England and Wales

Colorada	All sites (140–205)	M	ENGLAND AND WALES 100 100	Roother 102 104 Northad Western 102 104 North Western 102 102 Midland 94 101 Midland 98 101 Eastern 93 95 London and South Eastern 103 95 South Western 91 95 Wales (including Monmouthshire) 91 94 Wales (including Monmouthshire) 94 94	Conurbations: 119 104 Tyneside 105 104 West Yorkshire 105 104 South East Lancashire 111 104 Merseyside 114 105 West Midlands 106 104 Greater London 112 104	Urban and rural aggregates: Conurbations 111 104	Areas outside conurbations: Urban areas with populations of 100,000 and over Urban areas with nominations of 50,000 and	r 50,000
Cooleragus Stormach Intestine Larynx (150) (151) (152-154) (161) 100 100 100 100 100 100 100 100 100 100 101 100 100 100 100 102 127 113 109 103 103 120 117 111 100 100 104 98 105 103 103 138 104 98 105 100 101 100 100 105 104 98 97 94 138 116 99 97 94 138 105 107 110 107 110 97 111 141	Buccal cavity and pharynx (140–148)							121 103 80 99
Thestine Thestine Tarynx (151) Thestine Thest	Oesophagus (150)							107 99 102 99 105
Intestine (161) Is2-Is4) Is2-Is4) Is0-Is4) Is0-Is4) Is0-Is4) Is0-Is4) Is0-Is4) Is0-Is4 Is0-Is6 Is0-Is	Stomach (151)							98 99 100 87
Larynx (161) F F 100 138 138 138 138 138 138 138 144 116 124 124 124 124 124 124 124 124 124 124	Intestine and rectum (152–154)							96 98 98 96 96
Trach M M M M M M M M M M M M M M M M M M M	Larynx (161)							122 97 91 134
100 100 100 100 100 100 100 100 100 100	Trachea, bronchus and lung (162, 163)	M	100	100 100 100 100 100 100 100 100 100 100	123 113 115 115 130	122	111	86

Table LXXXII—continued

ua and emia ()	L	100	92 102 102	108	85 101	106 78 116 98	111	113	106	068
Leukaemia and aleukaemia (204)	M	100	109 88 90 80	7601	95	67 995 95	108	103	101	95
Hodgkin's disease (201)	F	100	78 104 92	14811	131	933 933 57	97	126	96	123
Hodg dise (20	M	100	120 78 117	104	266	160 133 999 999	111	66 -	104	104
Lymphosarcoma, reticulosarcoma (200)	L,	100	86 86 86 86	137	94 41	286 11.34 886 886 888	121	79	105	103
Lympho reticulo (20	M	100	1111 69 77 98	2888	104	50 66 131	133	96	116	988
Bone (including jaw bone) (196)	II.	100	117	113 86 86	104	131 157 115 171	84	121	123	2001
Bone (in jaw	M	100	120 102 88	2888	120	85 102 78 111	84	66	95	108
Bladder (181.0, .8)	T.	100	120 84 83	103 123	106	119 83 104 105	133	94	118	78
Bla (181)	M	100	400%	2821	75	1100 90 84	131	103	110	93
Prostate (177)	M	100	9837	103	112	22,500	100	66	106	106
Other parts of uterus (172–174)	T	100	88 101 101	102	101	103 102 102 95	93	111	108	866
Cervix uteri (171)	H	100	113	8888	8652	93 109 106 95	92	114	104	89
Breast (170)	F	100	9828	1005	101	92 92 76 109	111	66	104	97
Br (1)	M	100	23 93 23 23 23	137 58 126	122	132	103 88	103	169	98
		ENGLAND AND WALES	Northern East and West Ridings North Western North Midland	Midland Eastern Condon and South Eastern	stern cluding Monmouthshire)	Conurbations: Tyneside West Yorkshire South East Lancashire Merseyside West Kidlands	Greater London Urban and rural aggregates: Conurbations	Areas outside conurbations: Urban areas with populations of	50,000 and under 100,000	So,000 Rural districts

Table LXXXIII. Cancer: Death rates per million living, by sex and certain ages, and Standardised Mortality Ratios (All ages) by sex, for selected sites, 1950 to 1959, England and Wales

MALES 15 15 15 15 15 15 15 1	-	S.M.R. (1950-52 =100)		101 99 98 98 98	900 67 69 67 69 67 69 67 69 67 69 69 69 69 69 69 69 69 69 69 69 69 69		88 102 110 103 104	103 109 109 98		102 96 102 114 120	117 125 126 149 153
## 15- 5- 15- 5- 15- 5- 15- 5- 45- 55- 65- 75- and 090-82 100		and over		13,172 13,886 13,169 13,197 13,509	13,682 13,682 13,277 13,862 14,016		62 108 108 130	121 122 154 109		48477	111
Amage: Part		75-		10,975 10,795 10,683 10,536 10,350	10,272 10,350 10,284 10,294 10,336	,	94 106 106	90 91 112 91		41 10 11 11	000 441 61
## 0 - 5 - 15 - 25 - 35 - 45 - 55 - 55 - 75 - 8nd GSS-25 All		-69-		6,695 6,499 6,424 6,250 6,305	6,306 6,250 6,113 6,240 6,113		27 27 25 75	61 72 67 68 76		30 31 36 36 36 36	0444 056 888 888
ALIS Q- 5- 15- 25- 35- 45- 55- 65- 75- and (1976-52) ALIS Q- 5- 15- 25- 35- 45- 55- 65- 75- and (1976-52) ALIS Q- 5- 15- 25- 15- 15- 25- 15- 15- 15- 15- 15- 15- 15- 15- 15- 1		55-	ALES	3,705 3,616 3,680 3,574 3,556	3,559 3,559 3,559 3,521		34 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	38 38 30 30 30 30		447 466 55 62 62	61 67 76 90 78
MALES MA		45-	FEM	1,863 1,836 1,836 1,871	1,860 1,809 1,813 1,865 1,841		15 15 15 15 15 15 15 15 15 15 15 15 15 1	24002		34 44 47 47	50 50 55 55
MALES Color Colo		35-		685 708 702 711	681 697 701 697		40000	ららまらの		42222	33 33
MALES O- 5- 15- 25- 35- 45- 55- 65- 75- and (1956.52)		25-		191 191 170 202 197	202 201 178 191 199		22220	ころの!!		45.007.81	15 1 1 2 8 1 1 2 8 1
MALES	L	15-		66 66 59 72	69 57 69		77 170	77070		80000	08811
Alia Color	-	4		56 55 55 52	50 61 52 63		wamma	44000	(193)	17246	10045
Alia Color		-0		96 103 103 80	100 100 83 87 87		2000	24250	/stem	42387	18 18 23 23
Ali	The second second	All	10-205)	1,840 1,822 1,848 1,848 1,861	1,873 1,890 1,929 1,929	6	16 13 20 20 20	252 202 203 203 203		223 232 27	22 28 34 35
All 0- 5- 15- 25- 35- 45- 55- 65- 75- and ages 2,058 106 62 100 177 549 2,066 5,275 10,324 15,889 15,265 2,120 130 74 92 178 5,616 10,324 15,889 15,265 2,122 130 74 92 178 5,616 10,324 15,889 15,265 2,222 106 64 108 178 578 2,077 5,616 10,344 16,390 17,730 2,222 106 64 108 178 578 2,077 5,616 10,344 16,390 17,730 2,222 106 64 108 178 560 2,017 5,616 10,914 16,390 17,730 2,334 110 88 2,01 5,883 11,008 10,014 16,495 17,730 2,336 100 89			(1) sa	950 951 953 953	955 956 957 958 958	y (18	950 951 953 954	955 957 958 958	of n	950 951 953 953	955 956 957 958 959
All 0- 5- 15- 25- 35- 45- 55- 65- 75- and ages 2,058 106 62 100 177 549 2,066 5,275 10,324 15,889 15,265 2,120 130 74 92 178 5,616 10,324 15,889 15,265 2,122 130 74 92 178 5,616 10,324 15,889 15,265 2,222 106 64 108 178 578 2,077 5,616 10,344 16,390 17,730 2,222 106 64 108 178 578 2,077 5,616 10,344 16,390 17,730 2,222 106 64 108 178 560 2,017 5,616 10,914 16,390 17,730 2,334 110 88 2,01 5,883 11,008 10,014 16,495 17,730 2,336 100 89	1-	.27	98.	Deed Aread Street Street		lne	and and dref and dest		rts	And don't hard head head	Amel Amel accel dend dend
All of sees 6 - 15 - 15 - 25 - 35 - 45 - 55 - 65 - 75 - 65 - 75 - 65 - 75 - 65 - 75 - 65 - 75 - 65 - 75 - 65 - 75 - 65 - 75 - 7		S.M.R. (1950–52 =100)				Kidne			other parts		
All 0- 5- 15- 25- 35- 45- 55- 25- 25- 25- 25- 25- 25- 25- 25- 2	=			101 101 103	105 105 107	Kidne	98 98 1004 106 108	112 110 1109 117 117	and	1007	1114
All 0- 5- 15- 25- 35- 45- 75- 15- 25- 35- 45- 75- 15- 15- 15- 15- 15- 15- 15- 15- 15- 1	=	and over		15,889 15,265 98 16,280 17,627 101 16,495 17,031 101 16,499 17,279 102 16,590 17,730 103	17,026 17,308 104 16,962 18,038 105 17,111 17,849 106 17,457 17,889 107	Kidne	29 98 77 104 108 108 108 108 108 108 108 108 108 108	-141 112 125 110 81 107 44 107	and	701 103 100 100 100 100 100 100 100 100 1	13 117 12 114 23 136
2,156 0- 5- 15- 25- 35- 45- 35-	=	75- and over		15,889 15,265 98 16,280 17,627 101 16,495 17,031 101 16,499 17,279 102 16,590 17,730 103	17,026 17,308 104 16,962 18,038 105 17,111 17,849 106 17,457 17,889 107	Kidne	127 59 98 153 77 104 159 47 106	164 -141 112 118 125 110	and	11	23 13 117 19 12 114 22 23 136 19 136
2,156 100 178 15- 25- 15- 25- 25- 25- 25- 25- 25- 25- 25- 25- 2	=	65- 75- and over	All	10,324 15,889 15,265 98 10,638 16,280 17,627 101 10,540 16,495 17,031 101 10,604 16,419 17,279 102 10,914 16,590 17,730 103	11,008 17,026 17,308 104 11,102 16,962 18,038 105 11,231 17,111 17,849 106 11,504 17,230 17,761 106 11,624 17,457 17,889) 107	Kidne	104 127 59 98 1134 129 77 104 134 138 147 106 144 138 47 108	141 164 -141 112 110 141 156 164 167 160 164 164 167 161 194 148 117 131 192 144 107	and	48 11 = 91 47 20 = 99 57 20 29 107 56 25 = 109	65 23 13 1114 68 19 12 1144 82 22 22 23 136 82 19 12 1144
All	=	55- 65- 75- and over	All	5,275 10,324 5,889 15,265 98 5,44 10,638 6,280 17,627 101 5,561 10,641 10,495 17,279 102 5,720 10,914 16,590 17,730 103	5.803 11,008 17,026 17,308 104 5,885 11,102 16,962 18,038 105 5,950 11,231 17,111 17,849 106 5,869 11,504 17,230 17,761 106 5,983 11,624 17,457 17,889 107	Kidne	94 104 127 59 98 88 113 129 77 104 89 134 135 77 106 104 144 138 41 108	91 141 164 144 112 92 137 180 125 110 96 141 154 81 110 194 117 93 151 192 44 107	and	86 48 11 — 91 95 47 20 — 91 117 46 11 15 111 104 57 20 29 107 118 56 25 — 109	118 65 23 13 117 114 118 68 19 12 114 114 1139 82 22 23 136 131 131 131 131 131 131 131 131 13
All 10- 5- 10- 10- 10- 10- 10- 10- 10- 10- 10- 10	=	- 45- 55- 65- 75- and over	All	2,056 5,275 10,324 15,889 15,265 98 2,057 5,414 10,638 16,280 17,627 101 2,077 5,616 10,604 16,419 17,279 102 2,087 5,720 10,914 16,590 17,730 103	2.019 5.803 11,008 17,026 17,308 104 2.019 5.885 11,102 16,962 18,038 105 4 2.035 5,950 11,231 17,111 17,494 106 0 2,020 5,983 11,624 17,457 17,889) 107	Kidne	38 94 104 127 59 98 36 81 113 129 77 104 40 89 133 159 47 106 40 104 144 138 47 108	43 91 141 164 141 112 36 92 137 180 125 110 40 96 141 156 81 109 40 89 161 194 148 117 39 93 131 192 44 107	and	66 86 48 11 — 91 76 117 46 12 15 191 74 104 57 20 29 107 76 118 56 25 — 109	83 118 65 23 13 117 74 111 75 19 — 114 77 118 68 19 — 114 90 139 82 22 23 23 136 99 119 82 19 — 131
2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	=	- 35- 45- 55- 65- 75- and over	All	549 2,066 5,275 10,324 15,889 15,265 98 591 2,087 5,414 10,638 16,280 17,627 101 579 2,073 5,562 10,540 16,495 17,031 101 587 2,087 5,720 10,914 16,590 17,739 103	548 2,061 5,803 11,008 17,026 17,308 104 561 2,019 5,885 11,102 16,962 18,038 105 534 2,043 5,950 11,231 17,111 17,849 106 550 2,047 5,869 11,504 17,761 106 550 2,020 5,983 11,624 17,457 17,889) 107	Kidne	11 38 94 104 127 59 98 113 129 77 104 114 140 134 135 77 106 140 104 144 138 47 106 106 106 106 138 139 47 106 1	10 43 91 141 164 145 110 112 110 110 111 110 1	and	34 66 86 48 11 — 91 37 65 95 47 20 — 99 42 74 117 46 11 15 111 39 74 104 57 20 29 107 40 76 118 56 25 — 109	35 83 118 65 23 13 117 39 74 111 75 19 - 114 41 90 139 82 22 23 134 42 99 119 82 19 - 131 42 99 119 82 19 - 131
All 100 100 100 100 100 100 100 100 100 1	=	25- 35- 45- 55- 65- 75- and over	All	177 549 2,066 5,275 10,324 15,889 15,265 98 178 591 2,057 5,414 10,638 16,280 17,627 101 182 568 2,077 5,614 10,638 16,495 17,031 101 173 587 2,077 5,616 10,604 16,419 17,279 103 173 587 2,087 5,720 10,914 16,590 17,730 103	189 548 2,061 5,803 11,008 17,026 17,308 104 178 561 2,019 5,885 11,102 6,962 18,038 105 185 534 2,035 5,969 11,501 17,111 17,849 106 184 530 2,047 5,869 11,504 17,731 106 185 550 2,020 5,983 11,624 17,457 17,889 107	Kidne	3 11 38 94 104 127 59 98 2 12 36 88 113 129 9 98 3 11 40 89 134 159 77 104 2 6 40 104 144 138 47 106	4 10 43 91 141 164 -141 112 3 12 36 92 137 180 125 110 2 18 40 89 161 194 186 117 3 11 39 93 161 194 148 117 4 93 131 192 44 107	and	14 34 66 86 48 11 — 91 17 37 65 95 47 20 — 99 17 39 74 104 57 20 29 101 16 40 76 118 56 25 — 109 16 40 76 118 56 25 — 109	19 35 83 118 65 23 13 117 17 39 74 111 75 19 114 19 39 77 118 68 19 12 114 20 41 90 139 82 22 23 136 20 42 99 119 82 19 131
·	=	15- 25- 35- 45- 55- 65- 75- and over	All	100 177 549 2,066 5,275 10,324 15,265 98 92 178 591 2,057 5,414 10,538 16,280 15,657 101 102 182 568 2,073 5,562 10,540 16,495 17,031 101 104 173 577 5,562 10,914 16,499 17,739 102 105 173 5,720 10,914 16,590 17,739 103	99 189 548 2.061 5.803 11,008 17.026 17.308 104 101 178 561 2.019 5.885 11,102 16,962 18,038 105 109 185 534 2.035 5,950 11,231 17.11 17.849 106 90 185 550 2.047 5.889 11,504 17.230 17.761 106 98 185 550 2.020 5.983 11,624 17,457 17,889) 107	Kidne	2 3 11 38 94 104 127 59 98 1 2 12 39 88 113 129 98 1 2 13 40 81 134 153 77 104 1 2 6 40 104 144 138 47 106	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	and	8 14 34 66 86 48 11 — 91 9 17 37 65 95 47 12 — 99 11 76 117 46 12 15 191 12 17 39 74 104 57 20 29 107 10 16 40 76 118 56 25 — 109	9 19 35 83 118 65 23 13 117 11 17 39 74 111 75 19 114 12 20 41 90 139 82 22 22 23 114 12 20 42 99 119 82 19 131 12 20 42 99 119 82 19 131
125	=	S- 15- 25- 35- 45- 55- 65- 75- and over	All	62 100 177 549 2,066 5,275 10,324 18,889 15,265 98 74 92 178 591 2,057 5,414 10,638 6,520 17,627 101 70 102 182 568 2,077 5,616 10,540 16,495 17,031 101 68 107 5,077 5,616 10,604 16,419 17,279 102 64 105 173 587 2,087 5,720 10,914 16,590 17,739 103	68 99 189 548 2,061 5,803 11,008 17,026 17,303 104 75 101 178 561 2,019 5,885 11,102 16,962 18,038 105 64 109 188 534 2,035 5,969 11,231 17,111 17,849 106 69 198 550 2,047 5,869 11,504 17,751 106 67 98 185 550 2,020 5,983 11,624 17,457 17,889 107	Kidne	1 2 3 11 38 94 104 127 59 98 3 1 2 12 39 88 113 129 98 3 1 2 12 36 81 134 129 98 3 1 3 11 40 89 134 135 147 106 1 1 2 6 40 104 144 138 41 108	3 0 4 10 43 91 141 164 142 112 2 1 3 12 36 92 137 180 125 110 2 2 2 2 1 8 161 194 135 81 109 1 3 11 39 161 194 144 107 44 107	and	13 8 14 34 66 86 48 II 91 10 9 17 37 65 95 47 10 99 13 12 17 39 74 104 57 20 29 101 11 10 16 40 76 118 56 25 29 109 11 10 16 40 76 118 56 25 29 109	16 9 19 35 83 118 65 23 13 117 17 11 17 39 74 111 75 19 114 10 13 39 74 111 75 19 114 21 12 20 41 90 139 82 22 23 136 15 12 20 42 99 119 82 19 131

Table LXXXIII—continued

S.M.R. (1950–52 =100)			102 100 91 91 92	88 88 75 75 75		103 103 110	107 115 115 113
85 and over			69 77 87 87	90 58 87 101 83		48 38 61 59 112	120 160 160 145
75-			68 74 77 55	51 68 57 62		84 101 113 132	131 151 172 191 183
65-			464862	3888		96 104 130 125	110 125 117 124 128
55-	FEMALES		222223	05 05 17 17 17		26994	1887
45-	FE		911188	∞∞0/r		23.85 E 8	362
35-			40044	40mnm		322881	231128
25-			W024U	**U\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		22222	2028228
15-			87077	40,000		13 20 20	25226
~ ~ ~			00400	40400		23324	387.73
-0		(196)	2-21	anam-	(204)	44 44 36 36	21 141 37 39
All		w bone)	4 4464	22221	kaemia	£4444	£4448 25
		ling ja	1950 1951 1952 1953 1954	1955 1956 1957 1958 1959	id alet	1950 1951 1952 1953 1954	1955 1957 1957 1959
S.M.R. (1950–52 =100)		Bone (including jaw	105 104 90 81	78 86 77 77	Leukaemia and aleukaemia	97 107 108 110	117 116 122 121 121
85 and over		Boi	132 180 108 132 132	115 100 163 136 111	Leuk	132 68 108 118 162	250 267 205 205
75-			1133	122 102 102 202		124 138 189 207 184	244 285 318 262 314
-69			128825	58250		141 152 166 148 180	206 179 194 193 191
55-	MALES		62.5.	22428		96 108 97	106 95 110 114 105
45-	M		91 77 71 13	92555		84444 84 84	55 47 48 41
35-			99499	00040		36 23	3334
25-			アシアクチ	40004		24 21 21 21 21	224431
15-			<u> </u>	047117		22222	22222
-5			4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	01-WNA		337 30 30 28	26 28 35 34
0			444 -			52 54 54 54 54 54 54 54	38 44 46 46 49
All			21 21 19 19 17	98995		47 47 53 54 54	57 60 60 60 60

S.M.R. (1950-52 =100)			104 104 104 104 104	82222		100 104 104 104	100 95 103 87		101 102 99 104	106 104 103 104 99
85 and over			186 235 128 138 161	174 185 185 191 130		848 83 60 62	84 71 73 73		359 318 338 414 404	365 387 375 441 409
75-			20000	105		55 55 55 55 55	57 61 51 46		286 279 262 283 314	334 307 315 321 302
-59	ES		51 57 43 48	25.00 24.45.88 38.88		7:44 88 9:0 9:0 9:0 9:0 9:0 9:0 9:0 9:0 9:0 9:0	443 54 36 41		166 160 143 149	161 152 152 159 141
55-	FEMALES		122332	2222		30833	33 33 33 33 33 33 30 33 30 30 30 30 30 3		65 68 68	57 62 64 64 64
45-			0000	112 10 7 10 10		17 20 17 18 21	20 116 20 13		28222	20222
35-			ייש נינו נינו נינו נינו	w 24 w 1 m		00000	77000		890749	0,0000
25-		144)		0 1 1 1 1		77777	ww-ww		7777	~~~~
All		uth (140-	424CE	4244E	(84)	46455	44246	20)	377	44444
		tongue, rest of mouth (140-144)	1950 1951 1952 1953 1954	1955 1956 1957 1958 1958	Pharynx (145-148)	1950 1951 1952 1953 1953	1955 1956 1957 1958 1959	Oesophagus (150)	1950 1951 1952 1953 1954	1955 1956 1957 1958 1959
S.M.R. (1950–52 ==100)			106 103 907 907	\$5.25.2	Phar	101 102 102 95 106	27 20 88 83 83 83	Oeso	101 100 98 88 85	∞ ∞ ∞ ∞ ∞ ∞ 00 00 00 00 ∞ 00 00 00 00
85 and over		Lip,	985 881 631 691 878	718 788 698 784 656		279 288 338 338	308 262 337 205 256		721 814 862 735 811	679 775 709 557 856
75-			705 720 622 620 613	605 541 468 517 486		251 284 270 232 277	254 192 211 240 214		773 768 843 729 683	737 696 646 599 643
65-			283 275 234 217 222	210 190 178 168 176		133 142 140 141	124 109 135 108		444 400 370 352 330	337 322 322 345 331
55-	MALES		48 77 67 65	50 50 43 43 43 43		522025	82444 1444 74		131 157 148 127 123	126 141 119 123 127
45-	M		118	112 9 24		118 116 117 117	11 10 113 17		446 332 372 372	36 33 34 37
35-			WAWAW	オー のびか		70000	かいような		0.001-0.00	608 80 80
25-				~~~~		77077	~~~~		05000	amman
All			12444	3372		428847	22422		171 07 63 63	2 2 282

Table LXXXIII—continued

S.M.R. (1950–52 =100)		101 293 27	02488		105 97 98 95	28888		58888	28228
85 and over		2,579 2,486 2,5667 2,366	2,605 2,503 2,495 2,668		3,014 3,142 3,250 2,776	2,904 2,777 2,899 2,751		1,076 917 912 875 1,099	1,078 1,081 1,197 1,197
75-		2,315 2,392 2,181 2,211 2,115	2,080 2,126 1,967 2,032 2,019		2,254 2,029 2,073 1,919 1,875	1,869 1,723 1,745 1,745		861 770 781 758	708 670 666 731 806
-69-		1,250 1,220 1,158 1,069 1,074	1,058 1,008 1,001 951		977 907 888 832	849 797 767 777		444 434 330 381	378 382 357 367
55-	LES	4448 4448 4113 44133	395 394 362 362 352		3869 3869 3396 373	359 351 335 344		203 193 197 184	183
45-	FEMALES	160 165 157 151	146 1139 1128 126		160 149 149	143 139 137 142		677484	24288
35-		552 572 433 433	4444 2444 745 745 745 745		55 51 44 48 56	744 640 044 014		227 227 288 288	25 27 23 23 23 23
25-		1100 451		3)		111 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		レクタンレ	LN440
AII	a	284 286 278 271 273	268 258 264 262	except rectum (153)	257 239 248 248 238	232 233 233 232 235		106 106 106 108	104 103 98 107 111
	Stomach (151)	1950 1951 1952 1953 1953	1955 1956 1957 1958 1959		1950 1951 1952 1953 1953	1955 1956 1957 1958 1959	Rectum (154)	1950 1951 1953 1953	1955 1956 1957 1958 1959
S.M.R. (1950-52 =100)	Ste	101 99 98 98	95 93 95 91 91 91	e intestine,	101 101 97 93	886 884 811 79	R	104 102 95 90 91	782246
85 and over		2,324 2,746 2,523 2,868 2,581	2,859 2,712 2,930 2,744	Large	2,279 2,508 2,692 2,956 2,784	2,487 2,413 2,477 2,122		1,868 2,085 2,085 1,838 2,108	1,663 1,938 1,568 1,789
75-		2,963 3,064 3,079 2,927 2,979	3,169 2,938 3,095 2,954 2,986		2,354 2,326 2,281 2,267 2,187	2,066 1,969 1,998 1,871 1,829		1,753 1,834 1,796 1,708 1,737	1,664 1,679 1,575 1,565 1,492
-69-	Si	2,086 2,110 2,009 2,044 1,981	1,954 1,907 1,926 1,926		1,140 1,127 1,065 1,025 1,025	932 918 869 862 814		1,017 981 889 852 854	794
55-	MALES	1,015 978 978 919	905 909 901 885 863		385 353 352 352	346 333 316 306 309		388 354 326 306 288	311 281 274 291
45-		367 354 378 343 318	331 293 303 294		123	112 107 106 103 103		108 101 97 888 95	83 83
35-		869 000 88 000 88	122		444 444 444 438 444 444 444 444 444 444	3323		2223	22222
25-		944L2	20201		133337	2112		10000	1-41-4N
All		379 387 379 379 369	373 360 369 365 362		204 202 197 196 190	183 177 176 170 165		175 172 162 153 157	52444

	100 100 100 100 100 100 100 100 100 100	105 98 107 107		% 601101	111 1115 1118 121 124		100 101 000 1000	100 100 101 79		102 98 98 98 98	98 8 8 9 1 8 9 1 9 1 9 1 9 1 9 1 9 1 9 1
	503 576 642 474 689	623 549 603 718 658		241 288 324 373	275 428 364 404 368		2,283 2,402 2,088 2,289 2,389	2,317 2,341 2,228 2,351 2,192		200 171 257 230 267	281 249 201 191 301
	437 415 506 486 462	465 442 510 476 534		351 396 438 388	416 445 476 468 467		1,567 1,543 1,579 1,537	1,535 1,549 1,525 1,409		250 277 277 273 262	237 218 277 248 223
	286 272 285 285 275	294 275 305 305		341 352 344 361 379	390 393 390 401 411		1,052 1,062 1,114 1,073 1,060	1,062 1,067 1,089 1,089		205 205 177 184	175 178 178 190
	138	121 129 129 141		213 221 253 235 235	261 267 280 278 287		770 779 791 747	756 750 767 757 742	LES eri (172)	138 132 135 136 136	135
	84444	4 8.84.44.44.44.44.44.44.44.44.44.44.44.44		107	120 122 133 135		522 504 513 494 528	546 531 538 556 551	FEMALES Corpus uteri (172)	750 44 44 44	745 744 75 74 75 75 75 75 75 75 75 75 75 75 75 75 75
	600110	e 01100		266 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	96 04 04 48 84 94		215 222 217 218 228	207 212 196 214 201		22.52.23	∞∞1∞∞
		NUMNU	52, 163)	,00	00010		396 44 100 100 100 100 100 100 100 100 100	33023		01-101	2222
9	658	1797	d lung (162,	888 102 102	1111		350 352 363 356 364	369 371 370 383 371		522 522 523	52 52 52 52
Pancreas (157)	1950 1951 1952 1953	1955 1956 1957 1958 1959	bronchus and	1950 1951 1952 1953 1954	1955 1956 1957 1958	Breast (170)	1950 1951 1952 1953	1955 1956 1957 1958 1959		1950 1951 1952 1953	1955 1956 1957 1958
ď.	100 100 104 105	108 108 1113 1113	Trachea, b	1011114	128 133 142 142	H	105 102 128 125	119 105 108 109 22		1001 1009 2009 2009	880 880 890 890 890
	544 678 646 794 784	795 709 886 933	7	515 729 1,046 868 838	1,000 1,288 1,384 1,182 1,378		4 4 6 2 4 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5	\$3.4.50 \$4.7.70 \$5.4.70		359 394 329 304	275 312 332 378 399
	686 656 674 649 667	718 712 656 762 762		1,288	2,280 2,473 2,655 2,969 3,211		3000	28 27 27 24 24 24		381 392 358 321	325 328 331 348 371
	378 389 441 448 448	444 472 477 500 500 500		2,025 2,359 2,514 2,768 3,040	3,473 3,658 3,923 4,171		. 13 14 19 19	40174	LES rri (171)	335 314 308 302	314 316 302 302 304 286
	2112 215 197 204	216 223 218 218 238		1,836 1,952 2,142 2,245 2,410	2,539 2,625 2,724 2,684 2,849	c	20040	78000	FEMALES Cervix uteri (171	314 289 289 267 239	235 223 223 246 208
	73	74 74 75 75 75 75 75 75 75 75 75 75 75 75 75		821 850 843 881 934	895 918 915 916		40044	44000		178 173 172	156 165 178 178
	2007	91297		165 175 173 181	175 172 169 166 182		27787	27070		112211	79 78 100 100
	A. 42 42 42 41	NN900		227 227 25	25 20 27 27 27 27		00	0		23368	77.7 7.7 7.7 7.7 7.7 7.7 7.7
	77 83 83 83	886 917 92 95		484 530 568 607 657	693 726 784 784		www44	******		1111 109	108

Table LXXXIII—continued

S.M.R. (1950–52 =100)			101 801 101 801 101 101 101 101 101 101	106 106 107 107		105 103 103 104	104 104 103 111		123 86 113 111	130 118 61 94
85 and over			221 265 277 197 292	359 306 277 255 311		359 221 358 342 391	341 514 446 372 508		11112	12000
75-		nent (175	291 318 280 301 313	322 348 330 332 365		261 278 273 295 296	298 294 285 283 307		1001m	100 KHU
-59		road ligar	327 328 298 321 318	335 317 325 359 353		154 131 123 147	143 143 140 139		<i>4wwov</i>	רא לבוי בלי לכן לנוי
55-	FEMALES	be, and b	285 285 285 283 283	305 323 315 321 322		52 53 53 53	51 42 50 50 57		m0100	NNWNN
45-	1	Ovary, Fallopian tube, and broad ligament (175)	203 204 207 207 207	207 191 210 199 187		17 20 18 21 15	114 119 119 119		10170	11770
35-		Ovary, Fa	50 50 63 63 63 63	70 74 73 52 57		40044	444W		11710	17111
25-			113116	111233		~~~~	1		11110	11111
All			1110	121 124 124 125	.8)	333333	36 36 40	(7.181)		~~~~
			1950 1951 1952 1953 1954	1955 1956 1957 1958 1958	Bladder (181 · 0,	1950 1951 1952 1953 1954	1955 1956 1957 1958 1959	Other urinary organs (181 \cdot 7)	1950 1951 1952 1953 1954	1955 1956 1957 1958 1959
S.M.R. (1950-52 ==100)			102 100 103 103	105 1111 107 1111 109	Bladd	100 100 101 101	105 107 105 103	Other urir	98 178 173 173	115
85 and over			2,426 3,102 2,754 2,706 3,297	3,244 3,588 3,302 3,511 3,833		1,033 1,046 1,103 1,027	1,013 1,250 1,209 1,091 1,089			
75-			2,244 2,227 2,207 2,364 2,520	2,484 2,684 2,558 2,707 2,696		731 766 868 881 839	929 941 985 929 871		W0440	2020
-59		(7)	912 889 879 890 904	917 937 929 922 882		438 471 500 465 464	500 494 493 511 501		~~~~	w 4 w ~ 0
-55-	MALES	Prostate (177)	192 168 161 172 160	152 163 150 156 156		203 210 201 196 212	197 201 202 200 203		00770	00mm
45-		Ā	21 23 23 21	91189		58 59 54 54	60 60 51 51 51		HOHN	07100
35_			70070	70777		61119	851188		17111	11101
25-			7 000	0011		1017	7770		11101	1111
All			146 143 142 157	156 165 161 166		64888 6488 78	22432		07007	~~~~

94 103 106 105	104 1112 1113 1118
30	38
74040°	324
32222	30 27 28 28 28
22222	22224
1102	46446
12011	122
1236633	279248
132221	25254
1950 1951 1952 1953 1954	1955 1956 1957 1958 1959
104	108 108 124 1100 1100
34.5	13 47 34 11
31 32 32 33 39	44 477 56 56 56
555 15 555 15	56 50 50 51
33 34 39 39	0444 0448 338 422
300238	23 23 38 38
227341	26 28 21 21 25
253 543 543 543 543 543 543 543 543 543 5	32288
22322	22 22 22 23

Table LXXXIV. Diseases of the circulatory system, vascular lesions affecting the central nervous system, and congenital malformations of circulatory system: Death rates per million living, and Standardised Mortality Ratios (1950-52=100), by sex, 1949 to 1959, England and Wales

	1959	1.385.5 1.385.5 1.385.5 1.385.5 1.385.5 1.275.8 1.275.8 2.298 2.298 2.201 2.20	1,412	39
	1958	2.208 2.3958 2.3958 2.3988 2.22 2.22 2.22 2.23 2.23 2.23 2.23 2.	1,439	37
	1957	2.22 2.22 2.23 2.23 2.23 2.23 2.23 2.23	1,411	39
	1956	2 223 1 2203 1 2203 1 2203 1 203 2 2	1,442	34
	1955	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1,454	33
	1954	7 2 234 1,084 1,084 1,084 1,528	1,433	33
	1953	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1,356	43
	1952	1 874 1	1,381	35
	1951	2.2888 2.2988 2.2988 2.207	1,732	50
0	1950	1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	1,284	55
	1949	1. 181 1. 181 1. 181 1. 194 1.	1,228	51
		Rheumatic fever	Vascular lesions affecting the central M nervous system E	Congenital malformations of circulatory { M system
-	ICD No.	400-402 410-416 420 421 422 430 431-434 440-447 450 465 Rem. of 451-468 400-468	330–334	754
	Abbre- viated List No.	B24 B25 B26 B27 B28, 29 B46 (part)	B22	D41 (part)

Table LXXXV. Diseases of the circulatory system, vascular lesions affecting the central nervous system; and congenital malformations of circulatory system: Deaths and death rates per million living, and per 100 deaths from all circulatory diseases, by sex and age, 1959, England and Wales

					1	ongrana	THE CALLED	V GILLOS						l		
Abbre-						Males							Females			
List No.	Cause of death		All	9	15-	25-	45-	-69-	75 and over	All	9	15-	25-	45-	-59	75 and over
B24	Rheumatic fever	Deaths Rate Per cent	63 2.9	1.77	5.2	1.38	2.2	8.6 0.0	1000	63	2.8 26.4	2.4	5 0.81 0.4	2.3 0.1	0.0	111000
B25	Chronic rheumatic heart disease	Deaths Rate Per cent	2,482 1113 2.6	0.75	46 16 32.6	426 71 16·9	1,158 209 4 · 4	530 378 1.9	318 468 0.8	4,589		41.4	597 97 49·6	2,005	1,034 504 4·3	907 733 1 · 5
306	Arteriosclerotic heart disease	Deaths Rate Per cent	52,193 2,385 54·2	0.38	%.v. 0.00.r.	1,506	19,219 3,461 73·1	17,313 12,358 61·3	14,145 20,832 36·2	32,729 1,393 34·3	1 1 1	3.6	209	5,356 875 46.4	11,366 5,539 47·8	15,794 12,768 26.9
	Degenerative heart disease	Deaths Rate Per cent	20,507 937 21.3	1.3	%.v. 0.00.t.	116	1,548 279 5·9	4,335 3,094 15·3	14,493 21,345 37·1	31,495 1,340 33.0	0.59	7.5000	69 111 5·7	1,111 182 9.6	4,665 2,273 19·6	25,639 20,727 43·6
B27	Other diseases of heart	Deaths Rate Per cent	5,644 258 5.9	2.8 30.6	28 9.7 19.9	133 22 22 5.3	1,070	1,698	3,976	7,120	25 4.9 47.2	18 6·2 16·2	97	829 135 7·2	1,824 889 7.7	4,327 3,498 7.4
B28	Hypertension with heart disease	Deaths Rate Per cent	4,656	111	0.69	7.47	1,054	1,579	1,974 2,907 5·1	6,719	111		31 5.1 2.6	788 129 6.8	2,104 1,025 8·8	3,796 3,069 6.5
B29	Hypertension without mention of heart	Deaths Rate Per cent	3,269	0.38	15 5.2 10.6	180	1,065	854 610 3.0	1,153 1,698 3.0	3,555 151 3·7	111	3.8 9.9	13	618 101 5.4	960	1,887
B46 (part)	Other circulatory diseases	Deaths Rate Per cent	7,492	100	13.5	103	1,153	1,929	4,278 6,300 11 · 0	9,256	20.8	5.9	117 19 19 7.6	829 135 7·2	1,823 888 7.7	6,459 5,222 11·0
	All circulatory diseases	Rate Per cent	96,306 4,401 100	9.50	141 49 100	2,519	4,732	28,250 20,164 100	39,068 57,538 100	95,526 4,065 100	53 100 100	1111 38 100	1,204	11,550 1,887 100	23,786 11,592 100	58,822 47,552 100
B22	Vascular lesions affecting central nervous system	Deaths Rate	30,897	39	39	449	5,991	9,342	15,037	44,253	6.1	31	488	5,912	11,625	26,166 21,153
B41 (part)	Congenital malformations of circulatory system	Deaths Rate	1,102	879 165	51	13	12	16	9.80	921	717	14	10	111	23	6.5
									1		l					

living, by sex, at age 45-64, in the standard regions, conurbations, and urban and rural aggregates outside the conurbations, 1959, Table LXXXVI. Diseases of the circulatory system, and vascular lesions affecting the central nervous system: Death rates per million England and Wales

Hypertension with or without hert disease (440-447)	I	230	230 230 251	202 203 203 203 203 203 203	223 187 278 211 194 281	. 248	242	232
Hyperten or witho	M	382	330 306 415 415	283 339 413 469 469	403 314 320 467 331 485 399	403	. 343	397
liseases eart 434)	F	135	169 179 129	200 8 4 2 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	136 152 218 218 183 194 175	134	150	139
Other diseases of heart (430-434)	M	193	184 224 279 204	25. 1.	206 206 286 234 234 111	229	176	193
ardial ration 2)	H	140	158 180 180 166	1518 1618 198 198 198 198 198 198 198 198 198 1	103 143 107 220 74 116 63	164	153	166
Myocardial degeneration (422)	M	186	218 191 237 200 200 200	750 762 762 762 762 762 762 763 763 763 763 763 763 763 763 763 763	167 147 265 299 104 246 98	166	207	193
lerotic isease 0)	H	875	1,260 1,054 1,050 1,050	749 726 710 829 1,017	883 1,286 1,226 1,727 757	870	945	914
Arteriosclerotic heart disease (420)	M	3,461	4,052 3,836 4,030 3,101	3,722 3,327 3,159 4,048	3,676 4,342 4,342 3,921 3,199 3,456	3,651	3,538	3,434 2,926
neumatic sase and locarditis 5, 421)	H	369	343 489 331	308 308 302 497	450 450 450 450 450 450 450 450	402	369	346
Chronic rheumatic heart disease and chronic endocarditis (410-416, 421)	M	301	262 338 294	289 289 389 389	24484 84484 84484 8448 8448 8448 8448 8	329	271	291
lesions central system 334)	H	996	1,164	1,005 830 793 897 1,126	920 1,179 1,036 1,080 1,080 759	966	1,011	1,041
Vascular lesions affecting central nervous system (330–334)	M	1,079	1,325	903 879 835 1,093	1,065 1,222 1,372 1,173 1,173 1,173 1,173 1,173	1,201	1,110	1,094
nses	H	7,337	7,855 7,795 8,164 6,930	6,413 6,413 6,687 7,175 7,883	7,512 8,089 8,329 7,620 6,937	7,510	7,600	7,276 6,816
All causes	M	13,498	14,429 14,279 15,427 12,422	11,040 12,092 12,223 14,451	14,547 15,392 16,132 15,942 15,217 13,432	14,400	13,586	12,952
		ENGLAND AND WALES	Regions: Dorthern East and West Ridings North Western North Widland	Eastern South Eastern South Western South Western Wales (including Monmouthshire)	Conurbations Tyneside West Yorkshire South East Laneashire West Midlands Greater London	Areas outside conurbations: Urban areas with populations of 100,000 and over Urban areas with populations of	50,000 and under 100,000 Urban areas with normalions	under 50,000

living, by sex, at age 65 and over, in the standard regions, conurbations, and urban and rural aggregates outside the conurbations, 1959, Table LXXXVII. Diseases of the circulatory system, and vascular lesions affecting the central nervous system: Death rates per million England and Wales

_ 1	1				1
Hypertension with or without heart disease (440–447)	H	2,659	2,22,23,43,43,43,43,43,43,43,43,43,43,43,43,43	2,922 2,752 2,430 2,430 3,079 3,079	2,971 2,526 2,449 2,280
Hyperter or with dis (440)	M	2,673	7,1,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,	2,812 2,223 2,223 2,223 3,136 3,064	2,938 2,525 2,687 2,356
iseases eart 434)	H	1,870	2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,	1,884 1,830 2,070 2,262 2,539 1,935 1,635	1,851 1,878 1,768 1,978
Other diseases of heart (430–434)	M	2,114	2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,	2,091 1,944 1,944 2,257 2,663 1,919	2,039 2,231 2,147 2,116
rdial ation 2)	F	8,837	9,442 7,832 7,832 8,220 10,561 10,561	8,003 7,906 8,281 10,610 5,753 9,748 7,140	8,926 9,419 9,483 9,296
Myocardial degeneration (422)	M	8,616	8,993 8,993 9,155 9,155 7,224 11,669	7,625 7,806 8,853 10,287 6,519 9,136 6,337	8,273 9,275 9,466 9,142
clerotic isease 0)	F	8,258	8,4887 7,7464 7,791 8,107 1,556 1,566 1,56	8,535 10,602 10,602 10,602 10,602 10,602 8,776 8,350	9,017 8,526 8,047 7,388
Arteriosclerotic heart disease (420)	M	15,124	16,103 15,922 13,503 13,503 13,854 13,864 14,962	15,727 14,972 19,013 17,038 13,193 15,843	16,141 16,350 14,917 13,461
neumatic ase and docarditis 5, 421)	Ħ	196	1,004 1,004 1,004 1,165 1,165 832 832 832 832	1,132 1,132 1,122 1,122 876 1,240	1,058 822 788 881
Chronic rheumatic heart disease and chronic endocarditis (410–416, 421)	M	843	517 973 703 703 992 892 892 892	935 935 970 846 1,038	859 806 764 795
lesions central system 334)	F	11,490	13,523 12,554 11,781 11,781 10,888 9,806 10,481	13,175 10,755 12,844 13,099 11,079 9,142	12,103 12,470 12,112 11,281
Vascular lesions affecting central nervous system (330–334)	M	11,721	13,945 13,247 14,233 11,745 10,084 10,729 10,729 14,41	11,194 14,417 14,320 14,248 13,212 11,807 8,817	12,562 12,356 12,319 11,177
nses	F	59,071	61,412 62,365 64,058 59,590 57,052 57,052 58,010	60,067 59,774 64,969 65,302 60,315 62,151 57,051	59,993 58,687 56,096
All causes	M	81,122	81,310 84,349 88,187 78,958 81,466 73,421 80,852 74,865	85,450 85,333 90,667 90,099 88,308 84,182 82,113	84,172 84,356 80,381 73,185
		ENGLAND AND WALES	Regions: Northern East and West Ridings North Western North Midland Eastern London and South Eastern Southern South Western South Western South Western	Wales (including Monmouthshire) Conurbations	Areas outside conurbations: Urban areas with populations of 100,000 and over

Table LXXXVIII. Congenital malformations of the circulatory system (ICD No. 754): Deaths and death rates per million living, hy sex and age, 1951 to 1959. England and Wales

ı								sea and age, 1701 to 1707, England and Wales	480	TOOT	TO TO	Sur 6	, mann,	A THE	dies.						
					1951	15	1952	1953	53	1954	54	1955	55	1956	99	1957	2	1958	00	1959	65
		Age		Z	压	Σ	Ī	Σ	H	M	江	Z	Ĭ.	N	H	M	Щ	M	H	M	H
1											Deaths										
AL	All ages	:	:	1,050	963	890	804	913	786	948	167	1,007	756	1,017	791	1,126	911	1,124	870	1,102	921
	0-	:	:	582	444	604	491	623	491	647	514	645	430	219	206	725	553	726	528	724	584
	1-	:	:	78	09	99	89	09	64	48	58	80	9/	58	59	7.1	99	87	71	92	99
	5-	:	:	58	35	42	51	51	37	50	42	53	55	09	49	89	55	52	53	79	19
	15-	:	:	177	167	132	111	117	106	122	87	144	115	132	102	140	115	148	117	132	105
116	15-	:	:	126	180	40	56	46	58	09	45	19	58	65	53	94	95	98	79	69	89
	65 and over	over	:	29	77	16	27	16	30	21	21	18	22	25	22	28	33	25	22	22	31
									De	ath rat	Death rates per million	million	living*								
All	All ages	:	:	6.64	42.3	42.2	35.2	43 · 1	34.3	34.3 44.5	33.4 47.1	47.1	32.8	47.3	34.2	52.0	39.2 51.7	51.7	37.2	50.4	39.2
	0	:	:	1.67	1.35	1.75	1.50	1.77	1.48	1.87	1.57	1 · 88	1.33	1 · 88	1.49	1.95	1 .58	1.91	1.47	1 -88	1.61
	-	:	:	49.8	40.2	38.4	48.9	43 · 1	48.2	35.3	8.44	59.4	59.2	43.3	46.3	52.6	8.94	63.7	54.7	54.6	6.64
	5-	:	:	18.9	11.9	13.1	16.5	15.4	11.6	14.8	13.0	15.4	16.7	17.1	14.6	19.2	16.2	14.6	15.6	22.3	19.8

* At ages under 1 year, per thousand live birth occurrences.

65 and over

9.43

14.8 12.4 9.01

13.0

9.91 15.7 12.1

13.0 6.79

15.8 12.7

88.8 11.2

14.8 9.81 12.2

12.5

16.0 12.8

9.45 69. 1 6.93

13.6 11.6 10.4

12.9

11 ·8

14.5 8.00 8.01

17.7 31.7 26.9

19.3 25.7 14.7

15-

10.01 10.1

9.05 2.98

9.76 9.23

10.3

13.5 17.4 15.7

7.03

12.2

7.15

8.85

Table LXXXIX. Bronchitis (ICD Nos. 500-502): Infant mortality rates per 1,000 live births, death rates per million living at ages over one year, and Standardised Mortality Ratios (1950-52=100), 1949 to 1959, England and Wales

						Ma	les				
	Infant mortality rate	1-	5-	15-	25-	35-	45-	55-	65-	75 and over	S.M.R. (All ages)
1949 1950 1951 1952 1953	0·74 0·79 0·74 0·64 0·70	29 41 46 49 42	4·4 8·0 5·5 8·4 5·7	10 4·6 5·1 2·6 5·5	16 13 14 14 11	78 72 93 67 73	492 474 616 476 486	1,962 1,921 2,479 1,939 2,036	4,270 4,296 5,619 4,392 5,007	9,534 9,375 12,392 9,163 10,062	92 91 118 91 99
1954 1955 1956 1957 1958	0·58 0·65 0·54 0·45 0·54	43 48 58 39 40	7·1 5·8 5·4 4·8 7·3	5·9 9·5 5·5 4·0 9·3	11 11 11 11 11 10	67 73 57 65 69	425 475 437 431 434	1,780 1,997 2,072 2,034 2,044	4,347 4,868 5,040 4,683 5,181	8,583 9,531 9,754 8,503 9,506	86 96 98 92 98
1959	0.57	40	6.2	5.2	12	53	411	1,958	5,126	9,624	96
						Fem	ales				
1949 1950 1951 1952 1953	0·58 0·57 0·60 0·47 0·55	28 34 41 37 45	5·3 4·5 4·8 5·2 5·0	7·2 6·9 6·3 8·5 5·7	11 10 13 11 13	36 35 41 29 35	132 107 142 94 98	473 431 608 369 433	1,779 1,582 2,102 1,375 1,501	6,673 6,197 8,019 5,241 5,875	104 95 124 81 91
1954 1955 1956 1957 1958	0·41 0·41 0·35 0·35 0·40	30 25 31 34 32	6·8 3·6 4·5 6·5 5·3	5·3 4·6 4·0 5·0 6·4	8·2 11 10 12 11	24 29 34 30 31	95 94 89 93 103	330 366 384 330 390	1,133 1,321 1,293 1,104 1,168	4,358 4,768 4,889 3,547 4,067	68 76 77 61 68
1959	0.47	32	3.5	4.5	8 · 2	30	92	359	1,161	3,883	65

Table XC. Bronchitis: Death rates per million living, by sex, at ages 15-44, 45-64, and 65 and over, and Standardised Mortality Ratios, in standard regions and urban and rural aggregates within regional groups, 1959, England and Wales

and urban and rural aggregates within	regr	unai ;	groups	, 1939,	Engi	anu an	u wales
	15		45	-	65 ar	d over	S.M.R.
	M	F	M	F	M	F	(Persons all ages)
ENGLAND AND WALES	24	15	1,074	215	6,594	2,185	100
Urban and rural aggregates: Conurbations	28	17	1,394	264	8,684	2,960	130
Urban areas with populations of 100,000 and over Urban areas with populations of 50,000 and	31	14	1,151	241	7,008	2,165	105
under 100,000 Urban areas with populations under 50,000	24 22	9 13	1,074 876	258 165	6,612 5,685	1,774 1,754	94 84
Rural districts	15	14	640	138	4,213	1,454	66
Regions: Northern	35	19	1,094	194	5,338	2,010	93
East and West Ridings	39 33	21 26	1,224 1,533	309 336	7,887 8,131	2,632 2,929	123 132
Total	35	22	1,341	297	7,397	2,647	121
Conurbations: Tyneside	18	23	1 520	304	6,417	2,566	119
West Yorkshire	38	30	1,539 1,402	357	9,200 9,505	2,898	135
South East Lancashire Merseyside	44 41	31 34	1,812 1,669	429 234	9,505 8,327	3,651 3,034	157 136
Total	38	30	1,633	354	8,765	3,179	142
Areas outside conurbations: Urban areas with populations of 100,000 and	15	17	1 422	202	7 000	2.755	126
Urban areas with populations of 50,000 and	45	17	1,423	302	7,808	2,755	126
under 100,000 Urban areas with populations under 50,000 Rural districts	24 36 23	18 20	1,165 1,065 804	349 217 174	7,637 6,315 4,616	2,334 2,114 1,612	115 101 78
MIDLANDS AND EASTERN	- 25	20		1,,	1,010	1,012	,,,
Regions:	28	9	1,007	218	6,224	2,038	98
Midland	25	12	1,251	228	7,257	2,362	112
Eastern	17	10	651	140	4,404	1,511	66
Total	23	10	996	198	5,987	1,979	93
West Midlands	32	8	1,592	240	9,068	2,964	139
Urban areas with populations of 100,000 and over	28	12	1,041	230	6,655	2,112	100
Urban areas with populations of 50,000 and under 100,000	25	8	1,201	303	6,504	1,877	102
Urban areas with populations under 50,000 Rural districts	19 18	12 10	829 636	143 162	5.418 4,372	1,774 1,516	80 69
GREATER LONDON	19	10	1,161	201	8,523	2,798	119
SOUTH OF ENGLAND Regions:							
London and South Eastern (excluding Greater London)	10	13	685	125	5,128	1,352	67
Southern	12	6 18	702 593	106	4,827 4,206	1,463	69 59
Total	10	13	654	124	4,699	1,335	64
Urban areas with populations of 100,000 and	7.4	10	0.50	151	5 700	1.500	90
Over Urban areas with populations of 50,000 and	14	10	958	151	5,799	1,599	80
under 100,000 Urban areas with populations under 50,000	18 14	18 10	808 616	150 124	5,758 4,846	1,325 1,316	71 64
Rural districts	3	14	492	98	3,684	1,228	54
WALES (including Monmouthshire) Regions:							
Wales I (South East)	40	8 36	1,181 880	229 139	8,205 4,049	2,427 1,767	122 71
Urban area with populations of 100,000 and over Urban area with population of 50,000 and	49	16	1,196	321	9,084	2,412	130
under 100,000 Urban areas with populations under 50,000	93		1,923	202	7,576	1,944	128 112
Rural districts	18 25	13 20	1,189 829	202 125	7,576 7,297 4,867	1,944 2,363 1,863	80

Table XCI. Accidents and violence: Proportion of deaths attributed to violent causes per 100 deaths from all causes, by sex and age, 1901 to 1959,

England and Wales

			Males					Females		
	All	0-	15-	35-	65 and over	All ages	0-	15	35-	65 and over
1901–10	5·05	3·22	12 · 88	7·22	2·31	2·31	2·85	3·06	2·18	1·54
1911–20	5·69	3·74	15 · 69	7·16	2·29	2·31	2·95	2·97	2·26	1·63
1921–30	5·48	4·43	15 · 49	7·06	2·37	2·49	3·06	4·02	2·74	1·79
1931–35	6·05	5·60	20 · 29	7·37	2·55	3·04	4·11	5·54	3·31	2·25
1936–40	7·30	7·30	29 · 58	8·67	2·89	4·10	5·73	9·52	4·82	2·83
1941–45	9·13	10·34	46 · 29	9·46	2·85	4·56	8·25	12·26	5·58	2·74
1946	5·08	7·86	25·39	6·09	2·22	3·00	5·91	5·84	3·45	2·27
1947	4·89	7·65	24·86	6·09	2·14	2·97	5·86	5·53	3·55	2·22
1948	4·88	8·91	24·61	6·04	2·13	3·02	7·06	5·56	3·70	2·18
1949	4·62	9·47	27·04	5·87	1·96	2·72	7·02	5·80	3·34	2·01
1950	4·56	9·20	30·36	5·93	1·94	2·80	7·24	6·59	3·44	2·13
1951	4·42	10·22	34·74	5·68	1·85	2·73	7·36	8·21	3·42	2·06
1952	4·65	10·28	37·65	5·97	1·91	2·84	7·67	9·46	3·58	2·11
1953	4·75	9·63	38·86	6·18	2·13	3·09	7·43	10·10	4·01	2·35
1954	4·86	9·49	39·22	6·33	2·35	3·40	7·00	12·20	4·14	2·75
1955	4·84	10·44	43·29	6·21	2·24	3·39	7·91	12·81	4·35	2·68
1956	4·85	9·90	43·90	6·36	2·32	3·50	7·70	13·78	4·71	2·76
1957	4·83	9·30	43·18	6·24	2·28	3·50	7·13	13·97	4·62	2·77
1958	4·93	10·07	48·19	6·53	2.22	3·56	7·26	16·44	4·75	2·82
1959	4·99	10·02	49·98	6·22		3·64	7·38	18·41	4·96	2·84

Table XCII. Accidents and violence: Death rates per million living, by sex and age, 1901 to 1959, England and Wales

	All ages	0-	5-	10-	15-	20-	25-	35-	45-	55-	65-	75 and over
					M	ales						
1901–10	827	1,231	329	262	447	555	677	914	1,257	1,623	1,818	2,621
1911–20	857	934	395	304	596	902	828	894	1,082	1,395	1,715	2,757
1921–30	709	683	375	243	449	584	536	658	917	1,259	1,616	2,842
1931–40	843	735	394	261	561	773	658	716	977	1,375	1,724	3,638
1941–50	778	726	459	319	571	648	582	613	781	1,075	1,413	2,832
1951	591	487	259	190	362	608	474	429	591	814	1,137	2,745
1952	568	473	217	167	415	643	445	436	546	796	1,092	2,450
1953	582	418	215	151	373	603	446	429	583	822	1,198	2,811
1954	593	393	168	161	369	580	426	445	583	846	1,256	3,214
1955	605	386	207	181	444	671	446	444	567	823	1,243	3,166
1956	604	392	173	151	410	608	442	428	578	874	1,259	3,320
1957	594	351	168	156	456	644	421	456	566	845	1,197	3,126
1958	614	361	196	163	481	636	469	483	584	854	1,130	3,268
1959	615	352	185	164	574	704	448	442	560	833	1,261	3,183
					Fe	males						
1901-10	329	1,059	226	81	103	111	135	198	307	423	752	2,287
1911-20	300	767	234	98	117	120	127	179	272	382	728	2,364
1921-30	283	487	182	71	117	127	126	168	268	397	716	2,516
1931-40	412	537	215	108	183	192	199	239	355	523	1,005	3,399
1941-50	407	546	231	135	169	179	187	221	313	446	791	2,808
1951	321	350	96	45	88	87	85	126	228	327	648	2,803
1952	298	330	100	50	77	86	85	120	213	322	604	2,406
1953	329	319	94	62	73	86	88	139	232	349	670	2,727
1954	358	264	86	48	81	90	107	138	239	357	783	3,066
1955	370	300	94	59	94	85	96	143	241	377	775	3,128
1956	383	284	87	52	76	91	101	140	260	412	764	3,242
1957	374	279	83	45	79	98	103	145	258	396	762	2,991
1958	390	255	86	52	91	115	103	148	271	380	792	3,166
1959	399	259	82	67	101	130	113	156	253	416	784	3,163

Table XCIII. Motor vehicle accidents: Death rates per million living, by sex and age, and Standardised Mortality Ratios by sex, 1931 to 1959, England and Wales

	All	0-	10-	15-	20-	25-	35-	45-	55-	65-	75 and over	S.M.R.† (1950–52 =100)
						Mal	es					
1931–35	208	184	93	204	368	210	133	153	206	363	678	143
1936–40	216	159	86	176	363	209	152	171	257	411	749	146
1941–45	199	198	113	152	227	193	149	160	228	353	556	130
1946	153	144	109	161	205	139	109	102	160	241	498	99
1947	146	134	75	127	209	139	106	111	147	246	460	95
1948	126	135	63	122	173	112	79	97	142	194	400	82
1949	140	123	80	147	226	117	103	101	137	229	451	91
1950	151	104	60	177	279	164	106	102	153	242	439	98
1951	161	112	88	178	308	174	112	117	160	231	505	105
1952	149	105	73	165	301	150	123	105	144	219	403	97
1953	158	98	61	170	307	164	110	126	160	245	518	103
1954	161	77	57	194	323	165	116	127	170	259	564	105
1955	171	83	64	234	388	170	125	130	164	273	540	111
1956	174	86	61	236	344	182	121	138	185	270	587	113
1957	170	74	58	254	378	164	130	125	166	263	604	111
1958*	186	81	68	305	386	175	140	142	191	271	638	121
1959*	202	77	67	384	476	180	137	147	207	319	626	131
						Fema	les					
1931–35	68	106	34	49	50	31	29	49	95	181	267	169
1936–40	64	84	30	49	48	29	27	45	85	173	279	158
1941–45	56	106	42	42	40	29	26	37	61	107	172	128
1946	47	72	30	36	27	21	20	27	56	100	185	105
1947	47	71	26	37	23	17	22	33	54	100	177	104
1948	43	79	31	25	16	14	19	21	49	101	157	96
1949	41	65	32	32	30	10	16	22	44	95	151	91
1950	46	64	25	40	30	17	19	35	48	84	200	101
1951	49	58	22	47	37	19	23	35	54	101	198	107
1952	42	52	21	34	31	19	18	28	43	94	168	92
1953	45	56	25	36	37	16	18	33	49	87	181	97
1954	51	45	15	36	37	23	23	32	63	120	218	109
1955	55	52	26	58	45	22	26	32	57	121	235	117
1956	56	47	22	42	40	26	26	38	63	129	236	119
1957	53	42	22	42	46	24	22	37	59	117	222	111

1958*

1959*

^{*} According to the Seventh Revision of the International Classification (Nos. E810–E835). Other years according to the classification in use at the time.

[†] S.M.R.s are based on civilian deaths and civilian populations for the years 1940-1949 inclusive.

Table XCIV. Motor vehicle accidents: Deaths by sex according to nature of injury and external cause, 1959, England and Wales

			Remainder of E810–E835	37	\$25.50 \$2.50 \$2.50 \$2.50 \$3.50 \$3.50 \$4.50 \$
		E824	Other non- collision motor vehicle traffic accident	61 26	#50 42 800012 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		E823	involving running off roadway	271 75	4.82238 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
D No.	SINTS	E822	to rider of involving motorycle overturning without in antecedent roadway collision	20	2 S S S T T T S S S S S S S S S S S S S
External cause of injury and ICD No.	C ACCIDENTS	E821	to rider of motorcycle without antecedent collision	396	25,24,2 41,0 60,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0
cause of in	E TRAFFI	E816	Other motor vehicle traffic accident involving two or more motor vehicles	626	200
External	MOTOR VEHICLE TRAFFIC	E815	to rider or passenger of motorcycle in collision with other motor vehicle	777 77	8,000
	MOTO	E814	to rider or passenger of motorcycle in collision with non-motor vehicle or object	57	, , , , , , , , , , , , , , , , , , ,
		E813	to pedal cyclist	524	35.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5
		E812	to pedestrian	1,299	635 645 656 656 656 656 656 656 656 656 65
		Total	deants in motor vehicle accidents E810-E835	4,414	25.7 25.7
				W.	ZHZHZHZHZHZHZHZHZHZHZHZHZHZHZ
			Nature of injury (Intermediate List)	Total	Practure of skull
					121 AN 139 AN 141 AN 141 AN 141 AN 141 AN 142 AN 142 AN 142 AN 145 AN 145 AN 145 AN 146 AN 14

Table XCV. Deaths of pedestrians, pedal cyclists, motorcyclists, motor vehicle occupants, and others in motor vehicle traffic accidents, motor vehicle non-traffic accidents, and other road vehicle accidents, by sex, 1941 to 1959, England and Wales

29	H	979	21 21	132	406
1959	M	1,299	524 1 81	1,430	1,092 20 14
88	H	900	56	104	340 1 16
1958	M	1,323 37 25	446	1,251	946 24 8
57	H	753	68	96	302
1957	M	1,219 40 38	428 2 126	1,179	782 18 6
1956	H	844 9 29	69	8	285
19.	M	1,275	458 1 101	1,132	790 31 11
55	II,	813 9 31	84	68	270
1955	M	1,210 52 43	437 1 131	1,179	726 33 17
-54 ual nge)	Ŀ	719	77	83	175 2 11
1950–54 (annual average)	M	1,185	462	$48 \left\{ \begin{array}{c} 1,018 \\ 8 \end{array} \right.$	519 64 27
1946–49 (annual average)	H	706 {	86	48	155 { 6
1946–49 (annual average)	M	1,295 706 {	464	659	549
-45 ual ige)	II.	898	140	27	167
1941–45 (annual average)	M	2,073	557	651	762
		Pedestrians: Motor vehicle traffic accidents \ Motor vehicle non-traffic accidents \ Other road vehicle accidents	Pedal cyclists: Motor vehicle traffic accidents } Motor vehicle non-traffic accidents } Other road vehicle accidents	Motorcyclists: Motor vehicle traffic accidents} Motor vehicle non-traffic accidents	Motor vehicle occupants and others: Motor vehicle traffic accidents Motor vehicle non-traffic accidents Other road vehicle accidents
		150			

Table XCVI. Suicide: Death rates per million living, by sex and age, in standard regions, conurbations, and urban and rural aggregates outside the conurbations, 1955-59, England and Wales

- 11			Males				Fe	emale	S	
	All ages over 15	15-	25-	45-	65 and over	All ages over 15	15-	25-	45	65 and over
ENGLAND AND WALES	192	43	117	264	423	114	20	64	171	184
Urban and rural aggregates: Conurbations Areas outside conurbations: Urban areas with popu-	205	55	129	273	463	125	25	73	181	213
lations of 100,000 and over Urban areas with popu-	195	33	116	257	492	126	21	69	190	211
lations of 50,000 and under 100,000 Urban areas with popu-	206	45	129	278	456	132	16	76	193	223
lations under 50,000 Rural districts	187 166	41 34	110 99	257 254	395 343	108 81	14 16	53 49	173 128	168 115
Regional summary: Northern East and West Ridings North Western North Midland Midland Eastern London and South	190 205 217 186 196 170	46 54 54 33 39 32	110 128 129 105 114 111	280 263 289 268 273 237	419 472 498 425 511 360	90 113 128 103 113 109	10 27 19 9·1 16 19	60 48 63 60 56 66	134 175 189 150 181 166	153 204 233 190 208 162
Eastern Southern South Western Wales (including Mon-	195 158 188	49 46 29	126 93 120	264 230 258	396 353 410	125 106 118	27 19 18	82 57 66	179 172 186	189 152 160
mouthshire)	167	23	96	244	352	78	17	41	131	106
Conurbations: Tyneside West Yorkshire South East Lancashire Merseyside West Midlands Greater London	224 222 238 155 197 199	62 77 64 32 41 56	125 128 147 104 118 131	304 286 312 217 259 267	550 496 536 362 555 417	115 124 129 94 121 130	14 27 22 14 17 31	70 57 67 50 59 86	152 182 191 137 193 183	258 210 223 198 233 205

Table XCVII. Suicide: Death rates per million living, by sex and age, and Standardised Mortality Ratios by sex, 1901 to 1959, England and Wales

		All ages	0-	10-	15-	20-	25-	35-	45-	55-	65-	75 and over	S.M.R.* (1950–52 = 100)
							Males						
1901–10 1911–20 1921–30 1931–35 1936–40 1941–45		157 130 166 196 172 126		4 3 2 2 2 2 3	36 32 31 40 32 43	91 69 78 96 89 72	152 122 111 140 118 100	252 196 211 210 177 128	397 278 346 379 284 185	523 389 487 542 462 271	508 405 513 533 477 347	382 350 438 483 466 382	170 138 149 163 113 93
1946 1947 1948 1949 1950	•••	138 136 144 144 136		5 3 2 1 1	31 35 29 32 30	49 59 74 60 60	94 94 86 80 70	154 123 134 134 122	200 209 219 236 222	300 314 338 334 323	391 382 469 422 416	465 480 388 490 421	103 100 108 109 102
1951 1952 1953 1954 1955	• • •	135 132 142 149 143		6 1 1 3 4	24 34 28 26 26	53 55 67 59 54	78 78 89 93 97	120 120 126 145 130	213 198 222 235 213	303 320 325 340 322	410 389 411 430 422	477 413 480 439 463	100 98 106 110 105
1956 1957 1958 1959	•••	149 146 146 142		2 2 2 2 2	25 27 28 29	65 60 64 54	94 94 104 105	130 135 147 135	221 217 219 206	350 344 329 316	426 404 366 417	490 475 457 406	109 107 106 104
						F	emales	5					
1901–10 1911–20 1921–30 1931–35 1936–40 1941–45	• • • • • • • • • • • • • • • • • • • •	49 47 63 80 79 62		3 2 1 0 1 1	34 30 25 23 14 9	45 41 43 49 38 22	56 50 57 77 65 52	81 74 87 108 99 77	109 100 135 154 155 108	108 102 143 166 169 128	88 81 108 134 142 117	49 52 63 84 89 73	103 92 110 129 122 91
1946 1947 1948 1949 1950	•••	74 76 78 75 70		1 - 1 1	15 10 11 15 10	26 28 20 26 23	53 51 50 45 34	87 80 80 77 75	135 134 141 127 124	157 160 183 165 157	146 166 173 165 153	92 114 98 138 115	108 110 113 109 101
1951 1952 1953 1954 1955		72 68 76 81 84	Water State Control of the Control o	 1 3 1	9 11 10 12 7	20 12 22 23 19	38 35 39 52 45	66 66 79 77 75	135 118 127 135 148	160 154 167 167 190	167 164 171 198 201	105 97 127 130 126	103 97 108 115 119
1956 1957 1958 1959	•••	90 92 91 89	Countries Countr	1 - 1	11 12 13 14	27 30 33 33	49 47 50 50	71 80 83 88	156 145 151 140	203 214 190 200	217 230 208 195	141 136 162 137	126 129 127 124

^{*} S.M.R.s are based on civilian deaths and civilian populations for the years 1940–1949 inclusive.

Table XCVIII. Suicide: Proportions per 1,000 deaths according to external agent, by sex and age, 1955-59, England and Wales

			Males				F	emale	S	
	All ages 15 and over	15	35-	55	75 and over	All ages 15 and over	15-	35-	55-	75 and over
Domestic gas poisoning	437	458	439	420	472	561	600	544	561	586
Other poisoning	141	143	179	123	74	221	196	244	214	198
Hanging or strangulation	166	158	157	175	169	60	47	61	61	63
Drowning	84	42	66	104	118	99	63	96	111	89
Firearms or explosives	65	87	64	61	50	5	14	6	2	4
Cutting and piercing instruments	43	22	31	55	67	13	13	11	15	13
Jumping from high place	21	25	19	21	27	23	26	17	24	40
Other agents	43	65	46	39	23	18	40	22	13	7
Total	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Total number of suicides	15,701	2,099	5,484	6,588	1,530	10,377	1,013	3,691	4,844	829

Table XCIX. Accidents in the home and residential institutions: Deaths and death rates per million living, by sex and age, 1959, England and Wales

	ridents ne and ntial ions 0-E936)	Females	517	182	3.2	7.8	126	73	35
	Other accidents in the home and residential institutions (rem. E870–E936)	Males	587 27	265 150	33	91	113	43	45 62
	cified Is	Females	910	1.8	11	4.0	38	130	735 594
	Unspecified falls (E904)	Males	360	1.7	11	0.8	24	86 49	258 380
	on level 03)	Females	1,316	0.0	11	44.0	4.4	167	1,117
ı	Fall on same level (E903)	Males	433	0.0	0.3	4.0	28 5·0	77 55	322 474
ı	stairs, lers, and le level other E902)	Females	758	13	1.2	14	65	145	508 411
	Fall on stairs, from ladders, and from one level to another (E900–E902)	Males	549 25	30	1.7	35	106	102 73	398
l	and ds E917)	Females	470	29	36	3.1	8.6	94	203
I	Burns and scalds (E916, E917)	Males	249	47	18 5·1	$_{I\cdot I}^{10}$	38	45 30	94
i	ing by ity nating)	Females	520	2.4	0.0	2.4	86	130	276
I	Poisoning by utility (illuminating) gas (E890)	Males	341	0.0	91.7	56	98	65 46	115
	lents in and ntial tions	Females	4,491	261 155	53	142	402	739	2,894
	All accidents in the home and residential institutions (E870–E936)	Males	2,519	347 196	64	203	407	397	1,101
I			::	::	::	::	::	::	::
			Deaths Rate	Deaths Rate	Deaths Rate	Deaths Rate	Deaths Rate	Deaths Rate	Deaths Rate
			:	:	:	:	:	:	::
			All ages	7	5–14	15-44	45-64	65–74	75 and over

Table C. Accidents in the home and residential institutions: Deaths by month of occurrence, 1952-57, 1958 and 1959, England

Table C-continued

ı			١					, and	OCONIC	١				
	10 11 11 11							PE	FERSONS					1
Cause	Cause of death		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Accidental mechanical and cradle	cal suffocation in bed	1952–57 1958 1959	138 18 18	109 20 13	115 25 11	97	101 10 10	96 10 11	88	92	788	97	106 25 9	121 15 19
Drowning and submersion	ersion	1952-57 1958 1959	35.55	19	25 00 20	38	2000	529	975	33	35	3.69	27 5	222
Rem.E870- All other accidents	:	1952–57 1958 1959	169 22 21	257 31 24	129	130	121	107 26 28	102 20 20 20	114 14 28	95	24 19	81 19 12	35
All accidents in the institutions	E870-E936 All accidents in the home and residential institutions	1952–57 1958 1959	4,198 814 852	4,120 621 854	3,775	3,088 636 541	2,774 540 516	2,521 502 463	2,456	2,390 423 459	2,498 426 419	2,969 494 476	3,190 570 573	3,762 771 680

Table CI. Accidents in the home and residential institutions: Deaths by cause and sex at age 65 and over, 1959, England and Wales

ICD	Cause of death		Home		Reside	ential insti	tutions
No.	Cause of death	Males	Females	Persons	Males	Females	Persons
E870-E888	Accidental poisoning by solid and liquid substances	24	43	67	2	1	. 3
E871	Accidental poisoning by barbituric acid and derivatives	18	. 34	52			
E883	Accidental poisoning by corrosive aromatics, acids, and caustic alkalis	1	2	3		·	
Rem. E870-E888	Accidental poisoning by other solid and liquid substances	5	· 7.	12	2	111	3
E890-E895 E890	Accidental poisoning by gases and vapours Accidental poisoning by utility	188	411	599			
	(illuminating) gas Accidental poisoning by other gases	180	406	586	_		_
Rem. E890-E895	and vapours	8	5	13		T 144	-
E900-E904 E900 E901	Accidental falls Fall on stairs Fall from ladders	856 219 27	2,204 429 9	3,060 648 36	241	598 12	839 19
E902 E903 E904	Other falls from one level to another Fall on same level Unspecified falls	75 256 279	128 900 738	203 1,156 1,017	143 47	75 384 127	119 527 174
E910-E936	Other accidents	166	341	507	21	35	56
E916	Accident caused by fire and explosion of combustible material	115	252	367	4	5	. 9
E917	Accident caused by hot substance, corrosive liquid, and steam	14	32	46	3	8	11
E921	Inhalation and ingestion of food causing obstruction or suffocation Accidental drowning and submersion	15	9 12	24	8	11	19
Rem. E910-E936	Remainder of other accidents	17	36	53	6	10	16
E870-E936	All accidents in the home and residential institutions	1,234	2,999	4,233	264	634	898

Table CII. Accidents in the home and residential institutions: Deaths by cause, sex, and age, 1959, England and Wales

ICD No.	Cause of death	All ages	0-	5-	15-	45-	65-	75 and
E870-E888	Accidental poisoning by solid and M	110	12		23 32	49	12	over 14
E871	liquid substances \F Accidental poisoning by barbituric \(\) M	71	4	_	17	62	31	13
E872	acid and derivatives \F Accidental poisoning by aspirin \(\int M \)	103	5	_	21	47	24	10
E890-E895	and salicylates F Accidental poisoning by gases and M	371	3	7	66	107	73	115
E900	vapours \F Fall on stairs \M	533 323	5	1	25 21	90 70	133	278 166
E901	Fall from ladder	499	3		10	45 8	106	335
E902	Other falls from one level to another \(\) M	11 188	25	5	11	28	5 28	91
E903	Fall on same level M	248 433	19	4	4	18 28	34	169 322
E904	Unspecified falls (M	1,316 360	3		7	27	167	1,117
E914	Accident caused by electric current \(\) \(M \)	910	3	3	4	38	130	735
	₹ F	26	3		7	11	2	3
E916	Accident caused by fire and explosion of combustible material {F	213 411	32 38	18 34	10 24	34 58	38 85	82 172
	Burns by clothing $\left\{ egin{array}{ll} \mathbf{M} \\ \mathbf{F} \end{array} \right.$	263	21	27	2 17	9 38	15 54	24 106
	from domestic fire (open) $\begin{cases} M \\ F \end{cases}$	18 85	10	3 10	4	10	2 14	7 37
	gas fire, stove, etc M	4 39	2 1	-6	3	6	1 5	18
	electric fire $\left\{ egin{array}{ll} M \\ F \end{array} \right.$	7 57		- 2	1 3	2 7	17	2 26
	other specified $\hdots \dots \hdots \left\{ egin{matrix} \mathbf{M} \\ \mathbf{F} \end{matrix} \right.$	31 41	5	4 4	1 5	4 9	9	13 14
	not specified $\dots \dots \left\{ egin{array}{ll} M \\ F \end{array} \right.$	6 41	2 3	5		2 6	1 14	1 11
	Burns by falling into fire $ \dots \begin{cases} M \\ F \end{cases}$	31 38	-		1	4	6 11	20 22
	Burns by conflagration M	47 41	12	6	1 2	7 5	5	16 14
	Burns by other specified means $\begin{cases} M \\ F \end{cases}$	58 62	7 7	4 2	6 5	12 10	11 11	18 27
	Burns by means not specified $\begin{cases} M \\ F \end{cases}$	11 7	4	1 1	_	2	-	4 3
E917	Accident caused by hot substance, {M corrosive liquid, and steam {F	36 59	15 11	- 2	4	4 2	5 9	12 31
E921	Inhalation and ingestion of food { M causing obstruction or suffocation { F	165 137	100	1 4	16 13	25 26	11 11	12
E924	Accidental mechanical suffocation in bed or cradle {F	80 59	77 56	_	2 2	-	1	
E929	Accidental drowning and submersion $\begin{cases} M \\ F \end{cases}$	18 39	5 9	2 2	2 4	4	4 8	1 5
Rem. E870-E936	Other accidents $\left\{ egin{array}{lll} M \\ F \end{array} \right\}$	158 101	60	26	29	22	7 18	14 23
E870-E936	All accidents in the home and residential M institutions F	2,519 4,491	347 261	64 53	203 142	407 402	397 739	1,101 2,894

Table CIII. Accidental falls: Death rates per million living, by sex and age, and Standardised Mortality Ratios by sex, 1901 to 1959, England and Wales

			All ages	0	10-	15	20-	25	35	45	55-	65-	75 and over	S.M.R.† (1950–52 ==100)
							Male	S	1					
1901-10 1911-20 1921-30 1931-35 1936-40 1941-45		•••	84 107 85 93 120 109	45 38 25 25 25 31 35	25 30 18 18 24 26	23 39 31 31 34 40	24 36 31 33 40 30	39 56 37 37 51 41	69 93 56 47 58 58	119 155 93 79 95 87	209 254 161 146 177 157	420 454 352 338 414 337	1,253 1,373 1,306 1,609 1,910 1,448	169 213 146 146 178 156
1946 1947 1948 1949	•••	•••	86 97 80 78	27 31 27 20	21 26 22 18	25 33 22 28	26 42 27 31	30 36 37 33	43 50 41 38	57 68 49 57	107 108 85 68	245 254 211 185	1,203 1,352 1,122 1,162	115 126 104 100
1950 1951 1952 1953	***	***	74 86 79 84	14 17 16 14	18 17 17 10	19 17 23 22	25 34 30 29	29 35 30 30	34 40 30 33	50 51 47 52	71 85 78 80	183 241 221 246	1,139 1,275 1,169 1,254	93 108 99 104
1954 1955 1956 1957	•••	•••	99 94 99 92	11 14 9 15	9 16 15 13	20 13 16 20	23 25 31 21	27 28 25 23	39 38 34 29	52 44 45 47	86 85 77 78	280 248 281 262	1,659 1,574 1,698 1,491	122 115 120 111
1958* 1959*	***	•••	92 96	14 15	10 11	15 17	27 21	28 27	32 34	41 46	82 87	232 259	1,561 1,588	112 116
				1			Femal	ae .	1	,		1		
1901-10 1911-20 1921-30 1931-35 1936-40 1941-45	•••	***	68 69 73 100 136 118	27 20 13 14 18 17	6 6 4 5 6 8	4 5 4 3 4 5	4 5 4 3 5 6	10 8 5 6 6	26 20 10 8 12 11	64 50 31 30 34 26	132 108 85 92 123 81	389 356 318 388 476 346	1,657 1,752 1,845 2,283 2,714 2,135	143 132 117 138 167 127
1946 1947 1948 1949	•••	***	110 111 100 105	15 11 11 10	4 7 4 6	3 9 4 3	5 4 4 2	6 4 3 2	6 5 4 4	11 15 18 13	59 58 51 50	260 286 231 232	2,037 1,947 1,726 1,840	110 108 94 98
1950 1951 1952 1953		***	113 117 105 123	8 9 7	2 2 4	2 2 2 2 2	1 5 5 2	3 2 4	5 3 5 5	14 12 11 15	45 46 44 50	230 240 218 241	1,994 2,034 1,743 2,018	103 105 92 106
1954 1955 1956 1957	•••	***	141 144 149 142	6 8 8 9	3 3 2	3 2 2 1	1 4 2	3 2 2 2	5 6 5 ,5	13 15 13 14	45 50 50 40	295 281 275 250	2,249 2,261 2,338 2,178	118 118 120 111
1958* 1959*		***	149 151	6 12	2 3	. 1	3	1 4	5 5	12 12	41 46	273 259	2,247 2,234	115 115

^{*}According to the Seventh Revision of the International Classification (Nos. E900-E904). Other years according to the classification in use at the time.

⁺S.M.R.s are based on civilian deaths and civilian populations for the years 1940-1949 inclusive.

Table CIV. Accidental deaths: Deaths, infant mortality rates per 1,000 live births, and death rates per million living at all ages and ages over one year, by sex and age, 1959, England and Wales

	Rate per					Ď	Deaths					
Cause of death (and ICD No.)	living (All ages)	All	0	-1	1 0	10–14	Total under	-51	25-	45-	65 and over	Total aged 15 and over
Home accidents*: Coal gas poisoning (E890) { F	16	341 520	1	-4		90	7	14 6	42	. 8,8	180	334
Other poisoning (E870-E888, E891-E895) { M	10	140	2	12	11	- 1		7	26	28	34	125
Falls (E900-E904) { M	61 127	1,342 2,984	12 7	22	96		30	4.1.	42	158	1,097	1,301
Burns and scalds { M (E916, E917) { F	11 . 20	249	11 6	36	12 24	12	85	10	0.8	889	136 297	184
Choking and suffocation (E921, E922, E924, E925) { F	21.	268	171	21 9	77	-2	195	เกเก	12	27	25	73
Other (Remainder of E870-E936) { M	∞ \©	179	35	25	32.	17	88	.3	16	31	26	104
Total home accidents {M	115	2,519 4,491	231	97	33.	31	411	52	151	407	3,633	2,108
Transport accidents: Motor vehicle road accidents involving injury to:— Motorcyclist† (E814, E815, E821) { Pedal cyclist (E813) { FPedal cyclist (E813) { FPedal cyclist (E813) { FPedal cyclist (E813) { FPedal cyclist (E812) }	20 44 82 001 001	1,430 132 90 1,299 1,092 1,092	1 11	111 70 110	16 27 64 89	4.2 25 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8	88 88 444 144 144 144 144 144 144 144 14	806 74 77 77 77 77	36 20 38 38 38	186 20 20 25 26 205 205 319	31 108 561 561 106	1,422 126 431 67 67 1,055 1,056

70	16 26	513 41	4,563 1,488		123	733	13	474	795	2,193	8,864 6,476	535 351
44	14	35	930		27	344	00	114	63	588	2,985 4,914	1,435
88.4	60	195	1,167		55	195	21 5	136	293	700	2,274	410
12	- 1	178	1,124		37	142	34	112 24	300	625	1,900	315
0,0	11	105	1,342		44	52	4=	112	139	311	1,705	589 86
= 8	- 1	45	435		4-	30	men	227	97	361	1,207	227 125
0.0	1.1	19	152 52		1 1	19	3	23	29	114	297	159
ММ	11	311	135		- 3	r-m	2	103	23	136	304	181 74
11		1 4	139			m≠	-	14	18	83	338	243
11	1 1		Ø 10		1.1	(*)	11		27	28	268	0.69
817	17 26	555	4,998		127 75	763	71 16	701 175	892	2,554	10,071	460 303
4=	7	2 5	228 73		νe	35	1 3	32	4.4	117	460 303	
Zu	ZL	Zir.	M.F.		ΣH	MH	ZH	ZH,	ZH	Z	ZH	Σ'n
# ::	:	1 9	:		:	:	:	:	:	:	::	cath
volvin		Il other transport accidents:including rail, air, water (Remainder of E800-E866)	. :									nd de
nts, inv	E844)	ir, wair	dents		:	:	•	;	70-93	2	:	accidents (E800–E936) fant mortality rate an rate per million living
cciden clist	Pedestrian (E840-E842, E844)	nspor rail, ai	t accid	un	:	:	:	:	of E8	cident	lents (E800- ality r
ther road accide injury to:— Pedal cyclist (E843)	Pedestrian (E840–E84	ding 1	E866)	cident	ings E895)	E904)	E917	ing	inder	ner ac E936)	accid E936	lents (morti per m
Other road accidents, involving injury to:— Pedal cyclist (E843)	P. E.	All other transport accidents: including rail, air, water (Remainder of E800-E866)	Total transport accidents (E800-E866)	Other accidents:	Poisonings (E870-E895)	Falls (E900-E904)	Burns (E916, E917)	Drowning (E929)	Other (Remainder of E870-936	Total other accidents (E870-E936)	Fotal all accidents (E800-E936)	All accidents (E800-E936) Infant mortality rate and death rate per million living
			To	Ö				163		To	To	4

*Including deaths in residential institutions,

†Including passengers,

MORTALITY ACCORDING TO MARITAL STATUS

It has long been realised that among the many factors operating in the selection of pairs of people for marriage, one of the most important is that of health, both mental and physical. While there is occasional marriage of people with similar disabilities it is a fair generalisation to say that disabling disease or abnormality in a young adult lessens the chance of marriage. This being the case one would expect the mortality experience of single persons to differ from that of those who have been married. In addition to this the conditions of life differ for single and married people. For example, it is commonly believed that the single man is more likely to die a violent death. On the other hand a married man probably has greater incentive and may receive greater encouragement to follow a strict regime when he is suffering from a chronic debilitating disease.

Table CV (page 169) shows that at all ages, except the oldest for males, the death rates for single persons exceeds that of the married.

The excess mortality is greatest in young middle age, the peak being reached slightly earlier for women. The table below shows the ratio of the mortality for single to that of married persons by age and sex:

	Ratio of death rate	of single to married
	Males	Females
15-	1 · 43	1.05
25-	1.93	2.03
35-	2.03	1.92
45-	1.53	1.35
55-	1.36	1 · 21
65-	1 · 16	1 · 14
75 and over	1.00	1 · 44

The highest ratio in young middle age may be accounted for by the effect of selection reaching its peak soon after the normal age of marriage is passed. After that, while selection will still play some part, what might be called the results of remaining single become more important, the overall effect being adverse, so that the mortality for these people remains high but not relatively so high as at the younger ages.

A general analysis of the individual causes of death which might play a part in producing the high mortality among single persons has not previously been made. Table CVI (page 170) shows standardised mortality ratios for selected causes of death according to marital status.

For males, it occasionally happens that marital status is not known and for this reason ratios for some causes of death have not been calculated. This applies particularly to violent deaths where the information is usually derived from a coroner's certificate which has not provided for a statement of marital status in the case of males.

Certain causes stand out as being responsible for relatively more deaths among single than married persons. In both sexes tuberculosis mortality is high among single persons. This is probably the result of both selection for marriage and of the worse living conditions of many single persons.

Deaths assigned to virus diseases are also much higher among the single person. It seems probable that the reason for the increased mortality results largely from poliomyelitis. Sufferers from the more serious late effects of this disease will be unlikely to marry.

Among the malignant neoplasms, several interesting facts can be seen. That carcinoma of the breast is commoner among single women has long been known. Cancer of the corpus uteri and of the ovary are also more commonly a cause of death among single women. Cancer of the stomach, often associated with poverty, is less often found among single persons, but on the other hand cancer of the oesophagus is more frequent among the same group. Cancer of the buccal cavity and pharynx and of the larynx is more commonly seen among single males but there is no similar excess among single women. Among the forms of cancer seen less often in single people cancer of the prostate in men and of the cervix in women stand out.

Fibromyomata and benign ovarian tumours are more commonly a cause of death among single women.

Although deaths from thyrotoxicosis are rare among males they are relatively more frequent among the single, although the numbers are small. There is also an excess among single women but this is not so marked.

Two disease groups with very small numbers of deaths are iron deficiency anaemias and presenile psychosis but in both cases there is a marked excess among single persons. The latter group is particularly interesting provided the diagnosis was accurately made, for presenile psychosis is the result of organic brain disease which does not usually make its appearance before the age of 40. Some supporting evidence of this is found in the Mental Health Enquiry* where the admission rate in 1958 for presenile psychosis was higher, age for age, among single persons.

The effect of selection for marriage is seen in the higher mortality of single persons from chronic rheumatic heart disease.

Diseases of veins cause higher mortality among single persons. This group of diseases includes thrombophlebitis and venous thrombosis and pulmonary embolism and it is possible that the higher mortality might arise from the poorer nursing that these persons get at home when they are ill.

So far, discussion in this section has been restricted to the comparison of mortality experience of single and married persons. Although some unexpected results have been shown it has not been difficult to account for the higher mortality among single persons. When considering the mortality of widowed

^{*}Registrar General's Statistical Review, Supplement on Mental Health for the Two Years 1957-1958. H.M.S.O., London.

and divorced persons, however, the problem appears more difficult. Table CV shows that at all ages and for both sexes the mortality of the widowed and divorced is higher than for the married. Part of the explanation for this excess is that the average age of the widowed and divorced is slightly higher than that for the married in the same age-group. This is shown in the table below.

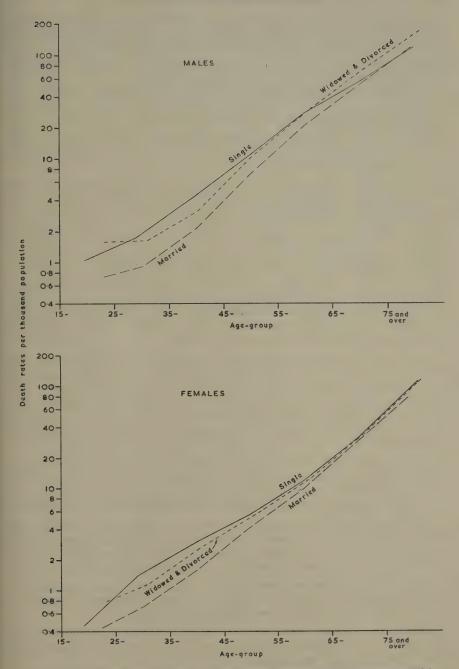
Average age of the population in certain age-groups by sex and marital condition, 1951 Census

		Males			Females	
	Single	Married	Widowed and divorced	Single	Married	Widowed and divorced
15–24	19.6	23 · 3	23 · 2	19 · 2	22.6	23 · 3
25–34	28.9	30.2	31 · 1	29 · 2	30.0	31 ·0
35–44	39 · 7	40 · 1	40 · 3	40 · 1	40.0	40 · 4
45–54	49 · 5	49.7	50 · 3	49 · 8	49 · 7	50 · 7
55–64	59 · 8	59 · 7	60 · 6	59 · 8	59.6	60 · 5
65–74	69 · 6	69 · 4	70 · 3	69 · 7	69 · 2	70.0
75 and over	79 - 4	79 · 0	80 · 5	80 · 3	78 · 7	80 · 7

That the higher average age is not the whole explanation is seen from Diagram 7 which has been plotted with the points for the mortality rates in each age-group placed according to the average of the group instead of at the midpoint of the group, as is the usual practice.

It is noticeable that the excess mortality is greater among males than females.

Diagram 7



Death rates per 1,000 living, by sex, age and marital condition, 1959, England and Wales

Table CVI, which will be discussed in more detail later, shows that with one or two exceptions the excess mortality is spread evenly over all causes of death.

In considering this type of picture it is advisable to ask whether there is any possibility of its being explained by error in the recording of marital status at either census or death. In this case there would have to be either an excess of deaths reported in error as of widowed and divorced persons or a deficiency of widowed and divorced persons recorded at the census. The first of these seems unlikely; in fact, one would expect an excess of deceased persons recorded as married. On the other hand, it is possible that there might be a deficiency of widowed and divorced persons recorded at the census. The General Report of the 1951 Census* gives little support to the possibility that any discrepancy would account for more than part of the excess, although the numbers involved in the census check were rather small.

Leaving aside the question of possibility of error, is it possible that the effect of death of a spouse is such as to increase the likelihood of death in the surviving member of the partnership? Here the basis of discussion has little factual support but it seems right to suppose that in the period immediately following bereavement the general state of "shock" induced is such as to increase the likelihood of death. In the majority of young and middle-age widowed persons, however, this period passes and adjustment takes place, often followed by remarriage. There will be some selection here, similar in many respects to that affecting the decision whether single persons should marry. With the older person, however, adjustment is more difficult to attain, remarriage is less common and the surviving partner, particularly the man, may live under relatively unfavourable conditions.

Under these circumstances, therefore, it is probably to be expected that the widowed and divorced should have a slightly higher mortality rate than married persons, although consideration of Table CVI shows that the excess mortality is spread so evenly over all disease groups that it seems difficult to believe that it is entirely the result of unfavourable influences on the widowed or divorced person. In the ensuing discussion it is proposed to concentrate on those causes of death whose S.M.R.s show wide variation from that for all causes.

It is noticeable that mortality from tuberculosis of the respiratory system is relatively high in both sexes. This might be partly the result of cross-infection from the deceased spouse, but it should also be borne in mind that the social environment predisposing to tuberculosis will be experienced by both partners.

The high S.M.R. from cancer of cervix uteri among the widowed and divorced may be partly explained by the excess found generally among persons who have been married. Whether the relatively high figure compared with the figure for married persons is of any additional significance is not clear.

The S.M.R. of 158 for malignant neoplasm of the testis among widowed and and divorced is of interest, and may be worthy of further investigation although the number of deaths involved here is not large.

Suicides are relatively more frequent among the widowed and divorced women. This is not unexpected. Unfortunately data for males are too incomplete to allow for a figure to be calculated.

^{*}Census 1951, England and Wales: General Report, p.43. H.M.S.O., London.

Table CV. All causes: Death rates per thousand living*, by sex, age, and marital condition, 1959, England and Wales

Note. The deaths of unstated marital condition in each age-group have been distributed proportionately among those of stated condition in the age-group.

	M	ales				Fe	males	
Total	Single	Married	Widowed and divorced	Age- group	Total	Single	Married	Widowed and divorced
12 3	4.10	14.1	81 · 6	All ages	11 · 0	5 · 47	6.61	49 · 0
2.33	2.33			0	1 · 83	1.83		directority.
1.01	1.06	0.74	1 · 58	15—	0.44	0.45	0 · 43	0.79
1 · 12	1.76	0.91	1 · 64	25—	0.79	1 · 40	0.69	1 · 17
2.41	4.36	2.15	3 · 16	35—	1 . 78	3 · 07	1 · 60	2.63
7 · 22	10 · 4	6.81	10 · 4	45	4.36	5 · 50	4.06	5 · 60
21 8	28 · 2	20.7	30 · 3	55	10.8	12 · 1	9.97	12.6
53 · 6	57.5	49 · 7	71 · 7	65—	30 · 5	31 · 1	27 · 4	33 · 5
138	117	117	171	75 and over	106	110	76 · 2	115

^{*}Total population.

Table CVI. Standardised Mortality Ratios, by sex and marital condition (all conditions at ages 15 and over = 100), for certain causes, 1959, England and Wales Note. The deaths of unstated marital condition have been distributed proportionately among those of stated condition.

			Males			Female	
ICD No.	Cause of death	Single	Married	Widowed and divorced	Single	Married	Widowed and divorced
	All causes	108	91	129	107	86	109
001-008	Tuberculosis of respiratory system	186	82	158	143	81	124
010019	Tuberculosis, other forms	200	81	118	146	94	85
020-029	Syphilis and its sequelae	111	94	124	89	85	120
080-096	Diseases attributable to viruses	200	74	127	153	84	101
140-205	Malignant neoplasms	95	97	115	103	95	106
140-148	Buccal cavity and pharynx	140	87	126	88	90	117
150	Oesophagus	133	92	116	123	88	104
151	Stomach	94	97	115	84	93	111
153	Large intestine, except rectum	90	97	116	102	92	106
154	Rectum	105	95	116	105	94	104
155	Biliary passages and liver (stated to be primary site)	103	98	108	79	95	113
157	Pancreas	85	98	116	92	95	108
161	Larynx	131	89	131	84	100	107
162, 163	Trachea, bronchus and lung	. 92	99	113	90	99	106
170	Breast	118	99	97 .	123	96	97
171	Cervix uteri				39	101	127
712	Corpus uteri				139	89	99
173, 174	Other parts of uterus, including chorionepithelioma and uterus unspecified				112	88	115
175	Ovary, Fallopian tube and broad ligament				140	92	96
176	Other and unspecified female genital organs				103	93	105
177	Prostate	69	97	117			
178	Testis	116	91	158			
179	Other and unspecified male genital organs	123	94	110			
180	Kidney	91	99	115	108	90	110
181	Bladder and other urinary organs	82	98	114	102	89	109
194	Thyroid gland	109	99	100	112	93	104
201	Hodgkin's disease	102	101	89	107	99	96
204	Leukaemia and aleukaemia	97	102	93	110	97	100
200, 202, 203, 205	Other neoplasms of lymphatic and haematopoietic tissues	91	102	94	120	96	97
214	Uterine fibromyoma				172	97	65
216	Benign neoplasm of ovary				163	84	95
240–245	Allergic disorders	118	95	117	108	98	98
250-254	Diseases of thyroid gland	117	93	127	123	96	96
252	Thyrotoxicosis with or without goitre	148	91	124	119	103	88

Table CVI—continued

			Males			Females	
ICD No.	Cause of death	Single	Married	Widowed and divorced	Single	Married	Widowed and divorced
253	Myxoedema and cretinism	91	93	132	125	86	103
260	Diabetes mellitus	131	87	131	75	101	108
290	Pernicious and other hyperchromic anaemias	108	89	123	107	86	106
291	Iron deficiency anaemias (hypo- chromic anaemias)	250	67	129	121	69	113
305	Presenile psychosis	242	92	49	148	102	71
300–304, 306–326	Other mental, psychoneurotic, and personality disorders		*	*	157	68	104
330–334	Vascular lesions affecting central nervous system	104	89	127	105	87	107
350	Paralysis agitans	93	95 ,	117	139	91	95
353	Epilepsy		* .	*	278	44	88
410-416	Chronic rheumatic heart disease	124	95	114	114	94	104
420	Arteriosclerotic heart disease, including coronary disease	89	98	115	97	92	107
421, 422	Degenerative heart disease	113	- 78	140	111	66	111
430-434	Other diseases of heart	112	86	133	103	82	110
440-443	Hypertensive heart disease	108	88	132	92	89	109
444-447	Other hypertensive disease	107	92	127	92	88	111
460-466	Diseases of veins	129	92	117	111	86	109
540-545	Diseases of stomach and duodenum	151	87	129	114	83	109
. 581	Cirrhosis of liver	108	93	140	86	98	110
584, 585	Cholelithiasis, cholecystitis	91	97	113	67	101	110
587	Diseases of pancreas	88	97	120	78	92	117
590-594	Nephritis and nephrosis	117	94	114	105	96	103
600-609	Other diseases of urinary system	120	89	127	93	87	114
620-637	Diseases of female genital organs				56	106	111
640-689	Deliveries and complications of pregnancy, childbirth, and the puerperium				38	119	104
E890 (·0 and ·7)	Accidental poisoning by utility (illuminating) gas in the home and residential institution	*	*	*	154	60	112
E900-E904 (·0 and ·7)	Accidental falls in the home and residential institution	*	*	*	116	66	110
E970-E979	Suicide and self-inflicted injury	* 2	12 *	- *	131	81	136

^{*}Owing to the high proportion of unstated marital condition, Standardised Mortality Ratios have not been calculated. The numbers of deaths were as follows:—

ICD No.	Cause of death	Single	Married	Widowed and divorced	Not stated
300-304, 306-326	Other mental, psychoneurotic, and personality disorders	87	130	71	28
353	Epilepsy	227	68	18	33
E890 (·0 and ·7)	Accidental poisoning by utility (illuminating) gas in the home and residential institution	43	64	58	176
E900-E904 (·0 and ·7)	Accidental falls in the home and residential institution	102	259	229	752
E970-E979	Suicide and self-inflicted injury	326	954	267	1,569

CONGENITAL MALFORMATIONS

As the infant mortality rate continues its decline one would expect that further reductions will become more and more difficult to achieve. One of the large sections of infant mortality which is becoming predominant, as other more easily preventible causes of infant death are removed, is that due to congenital malformations. Until fairly recent years it was thought that little could be done to prevent their occurrence except by the prevention of conception, and this only in rare instances. Now, however, the picture is changing as we come to understand more of the aetiology of congenital malformations.

This more hopeful attitude was one of the prime factors leading to the introduction of registration of causes of stillbirths in England and Wales by the Population (Statistics) Act, 1960, for if we are to continue to reduce infant mortality then more must be known of the epidemiology of congenital malformations. One of the tools in this study is that of national vital statistics. Although any detailed study on causes of stillbirths in England and Wales will not be possible until 1961 data are available, it is proposed to present a short introductory section on congenital malformations in this report and to follow: it in the next report with a somewhat fuller study of aspects of the same subject.

In any study of mortality from congenital malformations it must be remembered that 28 per cent of that recorded occurs in the first week of life and 69 per cent in the first year. Thus death very often takes place before any firm diagnosis has been made and a considerable proportion may be "lost" under more general headings such as prematurity.

At the same time the particular malformation recorded depends to a certain extent on its external appearance. For example, a child born and dying soon after birth with a severe degree of exomphalos will probably have its death certified as due to this cause, when a detailed examination might have revealed other gross abnormalities.

Further, it should be remembered that many children with relatively minor congenital malformations may live a normal life and die many years later of some completely unrelated cause. In other words, study of mortality from congenital malformations only touches part of the problem.

Table CVII (page 178) shows that the crude death rate from congenital malformations has remained relatively constant over the last 30 years. At the same time there has been some reduction in the infant mortality rate from the same cause. This reached a low level in the years between 1946 and 1953 and since then has been somewhat higher. As with all studies of time trends in mortality it is difficult to separate real from apparent differences. It would seem probable, however, that the initial fall from 1930 onwards was part of the general fall in the infant mortality rate. With the increased awareness of the importance of congenital malformations it is possible that the stability of the rate in the 1950's is compounded of a real fall in mortality together with increased use

of specific terms in certification. At the same time it seems reasonable to suppose that any decrease in infant mortality that may have occurred from congenital malformations as a whole in the last decade cannot have been a very large one.

In considering time trends for specific causes of death the same problems considered above are also relevant, although knowledge of specific advances in treatment can be brought more into the discussion. For example, Table CVIII (page 179) shows quite a considerable reduction in the number of deaths assigned to congenital hypertrophic pyloric stenosis which is almost certainly the result of more efficient treatment of the condition. The same can be said of the reduction in mortality from cleft palate and harelip, although this is a condition which is rarely fatal by itself and increased recognition of accompanying, more fatal, conditions may have played some part here.

Deaths assigned to monstrosity have increased over the past decade by an amount greater than would be accounted for by any increase in the birth rate. As virtually all these deaths occur in the first few days of life it is best to compare time trends of deaths from monstrosity per 1,000 live births. This is done in the table below:

·	1949	1959
Males	0·08	0·13
Females	0·12	0·32
Both sexes	0·10	0·22

Anencephalic babies make up the majority of the group of "monstrosities". This is a condition which is easily recognised, and incompatible with more than a few days of life. Data from Scotland* show that the majority are stillborn. It is impossible to be certain that time trends of this nature are not the result of more accurate certification of cause of death, although with anencephaly the deformity is so well known and so easily recognised that it would seem unlikely that this could account for all the recorded increase. *Prima facie* then, there appears to be some evidence of a real increase taking place in the number of monsters born. It is hoped to report on this in more detail in the next Commentary. It is worth noting that there has been a similar increase in stillbirths assigned to anencephaly in Scotland over the same period*.

Table CIX (page 180) shows the age and sex distribution of deaths assigned to congenital malformations in 1955-59. It has been found necessary to combine deaths from spina bifida and hydrocephalus owing to change in rules of assignment made in 1958. The effect of this was allowed for in Table CVIII.

The age-sex patterns shown by Table CIX vary very much as would be expected from our knowledge of the behaviour of these conditions, e.g. the early death in infants with imperforate anus to the death in middle age of patients with polycystic kidneys.

^{*}Annual Report of Registrar General for Scotland, 1959, Table 21A. H.M.S.O. Edinburgh.

The month of occurrence of deaths assigned to congenital malformations is shown in Table CX (page 181). Deaths from monstrosity appear to be fairly evenly spread throughout the year, contrary to what has been recorded elsewhere, e.g. McKeown and Record (1951*), but many of the other conditions show an excess of deaths in the winter months very probably resulting from the greater frequency of intercurrent infections during these months in persons already weakened by congenital deformity.

Table CXI (page 182) shows the death rates from congenital malformations in counties (including associated county boroughs) in England and Wales and also in the metropolitan boroughs, and the same data are shown diagrammatically in Diagrams 8 and 9. In England and Wales there are some wide differences, the death rate varying from 66 per million in Merionethshire to 167 in Radnorshire. Diagram 8 shows that areas with high rates are concentrated largely in South and East Wales, the Midlands and the North of England.

In London, although there is a wide range of death rates, it is difficult to see any clear pattern. The abnormally high rate for Holborn Met. B. is due to deaths there of children from abroad treated at the Hospital for Sick Children, Great Ormond Street. These deaths cannot be assigned to place of residence.

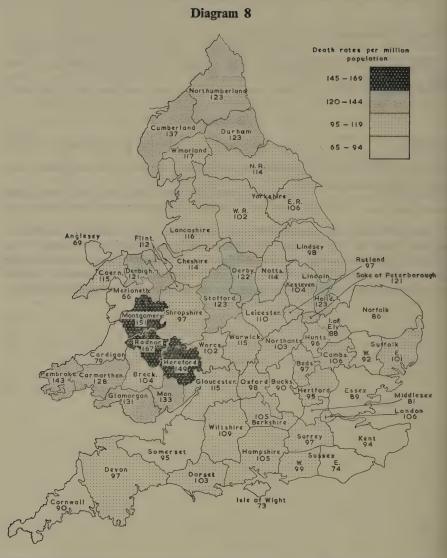
Table CXII (page 183) shows the infant mortality rate from congenital malformations by cause and region. Generally, the rate is similar for each group of malformations in all regions with one important exception. This is the group of malformations of the central nervous system (including spina bifida and hydrocephalus). For this group rates are very much lower in the southern and eastern parts of the country and the table below shows that differences in mortality from this group of malformations is sufficient to account for a very large part of the regional differences from all malformations. The biggest part of deaths from congenital malformations of the central nervous system is due to those assigned to spina bifida and meningocele but all have been combined in the table below because there are a number of cases in which more than one malformation is mentioned.

^{*}McKEOWN, T. and RECORD, R.G. 1951. Seasonal incidence of congenital malformations of the central nervous system. *Lancet*, vol. I, 1951, pp. 192-196.

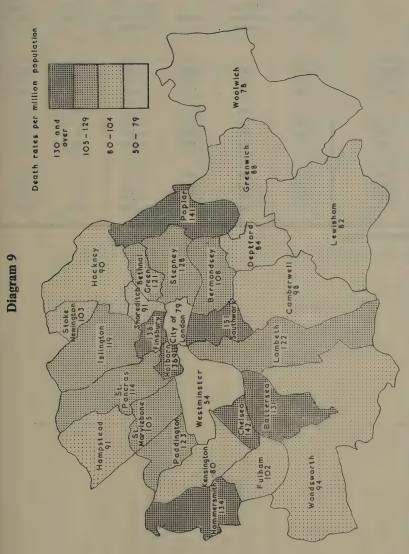
Regional infant mortality rates per 100,000 live births, 1950-58

Cause of death (and ICD No.)	Northern	East and West Ridings	North Western	North Midland	Midland	Eastern	London and South Eastern	Southern	South Western	Wales
Males										
All congenital malformations (750-759)	500 · 4	460 · 1	504.3	474 · 8	508 · 0	410.7	410.8	429 · 6	445 · 2	541-2
Congenital malformations of central nervous system (751, 752, 753)	159.9	141 · 1	162.5	139.6	164-5	97.6	96.8	106 · 4	121.0	167-8
Other congenital malformations (Rem. 750-759)	340.5	319.0	341 · 8	335.2	343 · 5	313-2	314-1	323 · 2	324 · 3	373 · 4
		:	Females							
All congenital malformations (750-759)	476.6	443.0	509 • 4	447.5	479 · 6	367-2	367.5	390 • 2	417.6	529 · 8
Congenital malformations of central nervous system (751, 752, 753)	212.3	196.2	242.5	193 · 9	211.5	130.0	126 · 1	147.7	168 · 7	235.5
Other congenital malformations (Rem. 750-759)	264 · 3	246.8	266-9	253 · 6	268 · 1	237 · 1	241 · 3	242.5	248 · 9	294.3

If this difference had occurred between countries one would be tempted to explain them on the grounds of differences in certification procedure, etc., but it is difficult to see how this could have occurred inside a country as highly developed as England and Wales. There is obviously a case here for further investigation and it is hoped to report further in the next Commentary volume.



Congenital malformations: Death rates per million living, in counties (including associated county boroughs), 1955-59, England and Wales



Congenital malformations: Death rates per million living, in City of London and metropolitan boroughs, 1955-59

Table CVII. Deaths and death rates from congenital malformations, infant mortality and stillbirth rates, 1931 to 1959, England and Wales

		Congenital r	ns	Total infant	Stillbirths	
	All	ages	Under	r 1 year	mortality	per
	Deaths	Rate per million living	Deaths	Rate per 1,000 live births	1,000 live births	1,000 total births
1931–35*	4,484	111	3,653	6·04	61 · 9	41·0
1936–40*	4,733	115	3,845	6·32	55 · 3	38·5
1941–45*	4,994	118	3,717	5·55	49 · 8	30·5
1946–50*	4,983	115	3,503	4·49	36 · 3	24·0
1951	4,629	106	2,864	4·23	29·7	23·0
1952	4,453	101	3,066	4·55	27·6	22·7
1953	4,261	97	2,934	4·29	26·8	22·4
1954	4,493	101	3,166	4·70	25·4	23·5
1955	4,563	103	3,093	4·63	24·9	23·2
1956	4,575	102	3,215	4·59	23·7	22·9
1957	4,930	110	3,348	4·63	23·1	22·5
1958	4,890	108	3,389	4·58	22·5	21·5
1959	4,911	108	3,398	4·54	22·2	20·8

^{*}Annual average.

1959	2,503	50 115	301	237 275	69	1,10 2 921	117	274	20	21 6	233	248	131	117	34	182 151
1958	2,589	59 106	340	201	61	1,124	111	286	24	11.4	251	261	142	119	33	207 156
1957	2,589	57 96	328	201	83	1,126	10	294	27	30	237	274	130	144	33	182
1956	2,442 2,133	59	348	209	48	1,017	15	288	25	27 6	236	267	141	126	30	160
1955	2,431	41	343	185	50	1,007	13	296 164	00 FC	26	232	279	158	121 52	27	192
1954	2,349	51	328	201	65	948	8 8	292	46	31.00	215	260	138	122	30	158
1953	2,216 2,045	33	279 394	170	\$ 3	913	13	321	\$2 12	28	241 176	265	147	118	27	152
1952	2,323	54	294	195	62	890	24	344	67	28	249	265 191	163	102	3.11	164
1951	2,425	37	290	180	52	1,050	20	348	63	33	252 180	255 175	138	117	32 24	161
1950	2,528	34	266	202	50	1,158	20 20	402 218	96	38	268	247 193	139	108	30	118
1949	2,406	32	276	189	48	1,044	25	458	152	24 4	282	197	104	93	15	122
Cause of death	CONGENITAL {MALFORMATIONS {F	Monstrosity {M	Spina bifida and meningocele { M	Congenital hydrocephalus { F	Other congen: malformations of M nerv: sys'm and sense organs { F	Congenital malformations of circula- { K tory system	Cleft palate and harelip { F	Congenital malformations of diges- { M tive system { F	O Congenital hypertrophic pyloric M stenosis &	.1 Imperforate anus $\{F$.2 Other { F	Congenital malformations of genito- { M urinary system { F	1 Polycystic disease of kidney $\left\{ f K \right\}$.0, .2, .3 Other {M	Congenital malformations of bone { M and joint { F	Other and unspec'd congenital mal- { M formations, not elsewhere classified { F
ICD No.	750-759	750	751	752	753	754	755	756				757			758	759

Table CIX. Congenital malformations: Deaths by cause, sex and age, 1955-59, England and Wales

ı		65 and over	443	11	ω 4	40	118	1.1	117	1	11	117	149	122	27 26	8 15	28
		45-	991	11.	13	12	381	- _{.t}	72	7.1	11	38	397	346	38	16	99
	Years	15-	1,125	11	53	30	696 554	- 1	54	1-	1-	15	215	125	84	15	60 47
		2	530	16	88	37	312 279	1 5	37	11	11	37	33	12	21	r 4	30
		-	842 802	1 2	194	75	372	90	80	- 1	7-	48	48	તાળ	21	13	52 46
	4 weeks	and under 1 year	3,244 2,974	-m	991	100	1,520	81 61	349	110	16	223	147 54	13	126	33	120
	~	r-3 weeks	1,852	12	707 864	22	511	14	291 198	19	26	246	30	17	82 26	45	60
	Tindo	Under 1 week	3,527 3,126	257 450	680 942	57 69	1,330	27	438	۱ ع	71	364	221	30	157 58	59	323
	114	ages	12,554 11,315	266	2,693	311	5,376	51	1,438	134	115	1,189	1,329	702	627 275	157	923
			M.W.	N.	(F)	N. P.	(FM	ZH.	(FM	(F)	MA	M	ZH	M	MH	ZH	(M
1								~			v	7	•	٧	4	4	
				:	::	n and	:	:	:	:	:	:	:	:	::	:	:
-			•	:			tem	:	:		:	::		:	~	···	:
							ry system		:	:					:	::	:
	1	death	ITAL		::	of nervous system	culatory system	÷	:	:	:			:	>	::	:
	1	use of death	NGENITAL RMATIONS	:		of nervous system	of circulatory system	:	:	:	:	:	genito-urinary system	:	:: :: :: :: :: :: :: :: :: :: :: :: ::	::	:
	200	Cause of death	CONGENITAL ALFORMATIONS	:		of nervous system	ations of circulatory system	: :	:	:	:	:	genito-urinary system	:	:: :: :: :: :: :: :: :: :: :: :: :: ::	::	:
	2	Cause of death	CONGENITAL	:		malformations of nervous system	alformations of circulatory system	: :	:	:	:	:	genito-urinary system	of kidney	:: :: :: :: :: :: :: :: :: :: :: :: ::	::	:
	100	Cause of death	CONGENITAL MALFORMATIONS	:		malformations of nervous system	ital malformations of circulatory system	: :	:	:	:	:	genito-urinary system	of kidney	:: :: :: :: :: :: :: :: :: :: :: :: ::	::	:
	17 17 17 17 17 17 17 17 17 17 17 17 17 1	Cause of death	CONGENITAL MALFORMATIONS	:		malformations of nervous system	Congenital malformations of circulatory system	: :	:	:	:	:	genito-urinary system	of kidney	:: :: :: :: :: :: :: :: :: :: :: :: ::	::	:
		I.C.D. Cause of death	750–759 CONGENITAL MALFORMATIONS	:	::	al malformations of nervous system	Congenital malformations of circulatory system	:	:	:	:	:		:		:	:

Table CX. Congenital malformations: Deaths by cause and month of occurrence, 1955-59, England and Wales

Dec.	2,135	53	551	55	088	=	191	219	29	146
Nov.	1,989	63	507	49	813	6	186	200	23	139
Oct.	1,994	<i>L</i> 9	494	28	837	2	183	189	31	130
Sept.	1,795	99	461	50	693	7	188	172	22	137
Aug.	1,774	57	491	47	714	9	153	172	20	114
July	1,844	61	497	47	721	13	184	191	26	104
June	1,881	99	510	48	750	12	185	177	22	111
May	2,072	70	541	0/	817	9	207	182	28	151
Apr.	1,983	09	495	41	808	16	201	200	27	135
Mar.	2,149	54	525	64	871	12	221	210	23	169
Feb.	2,033	55	514	59	836	10	196	193	31	139
Jan.	2,233	65	576	71	068	5	223	221	34	148
Cause of death	CONGENITAL MALFORMATIONS	Monstrosity	Spina bifida and meningocele, Congenital hydrocephalus	Other congenital malformation of nervous system and sense organs	Congenital malformations of circulatory system	Cleft palate and harelip	Congentital malformations of digestive system	Congenital malformations of genito- urinary system	Congenital malformations of bone and joint	Other and unspecified congenital malformations not elsewhere classified
ICD No.	750–759	750	751 {	753	754	755	756	757	758	759

Table CXI. Congenital malformations: Death rates per million living, in London A.C., metropolitan boroughs and counties (including associated county boroughs), 1955-59, England and Wales

Area	Rate	Area	Rate
ENGLAND AND WALES London A.C. City of London	106 106 78·9	Herefordshire Hertfordshire Huntingdonshire Kent Lancashire	149 95·1 96·4 94·3 116
Metropolitan Boroughs: Battersea Bermondsey Bethnal Green Camberwell Chelsea	131 108 121 98 1 142 84 4	Leicestershire Lincolnshire(Parts of Holland) Lincolnshire (Parts of Kesteven) Lincolnshire(Parts of Lindsey) Middlesex	110 123 104 98·3 80·6
Deptford Finsbury Fulham Greenwich Hackney	138 102 87 · 6 89 · 7	Norfolk Northamptonshire Northumberland Nottinghamshire Oxfordshire	86·2 103 123 114 98·2
Hammersmith Hampstead Holborn Islington Kensington	134 90·6 369 119 79·9	Peterborough, Soke of Rutland Shropshire Somerset Staffordshire	121 97·2 97·1 94·7 123
Lambeth Lewisham Paddington Poplar St. Marylebone	122 82·1 123 141 105	Suffolk, East Suffolk, West Surrey Sussex, East Sussex, West	101 92·3 96·7 74·3 99·0
St. Pancras Shoreditch Southwark Stepney Stoke Newington	114 90·7 151 128 103	Warwickshire Westmorland Wight, Isle of Wiltshire Worcester	115 117 72·6 109 102
Wandsworth Westminster Woolwich	94·2 54·2 77·9	Yorkshire, East Riding Yorkshire, North Riding Yorkshire, West Riding WALES (including	106 114 102
Bedfordshire Berkshire Buckinghamshire Cambridgeshire Cheshire Cornwall Cumberland Derbyshire Devon Dorset Durham Ely, Isle of Essex Gloucester Hampshire	97·4 105 89·5 106 114 89·9 137 122 97·3 103 123 87·7 89·0 115	Monmouthshire) Anglesey Brecknockshire Caernarvonshire Cardiganshire Carmarthenshire Denbighshire Flintshire Glamorganshire Merionethshire Monmouthshire Montgomeryshire Pembrokeshire Radnorshire	69 · 3 104 115 78 · 8 128 121 112 131 66 · 2 133 151 143 167

Table CXII. Congenital malformations: Deaths under one year and death rates per 100,000 live births in standard regions, 1950-58, England and Wales

8	Rate	14·2 24·4	135.3	20.5	12.1	197-2	× 4 ∞ 4	88 1 51 0	7.2	3.9	32.1	541.2
Wales	Deaths	774	366	33	23	376 1	11.80	168	13	13	76 58	1,032 5
_ E	Rate	8.5	86.6	23.5	10.8	185.4	2.8	71.5	22·1 10·4	4.5	26.4	445.2
South Western	Deaths	31	184 274 1	50	23	394 1 293 1	900	152	21	16	55	946 4 844 4
E	Rate	13.6	84.6	18.8	3.0	94.5	5.5	61.9	4.4	5.9	26.7	390.2
Southern	Deaths 1	28 1	171 218 11	38 1	15	393 19 276 14	10	125 6	29 1	12	58 2	868 42
nd	Rate I	10.3	69.8	18.8	8.1	7.5	2.5	36.2	9.0	5.8	27.6	5.08
London and South Eastern	Deaths R	75 1	508 651 9	137 1	59	,341 184.	98	249 3	62 23	37	201 27	2,526 367
Sou							~			2010		
ELI	Rate	12.1	72.1	17.1	οο Q ώ.ε.	183.5 149.9	3.1	34.4	23.4	 	24.6	410.7
Eastern	Deaths	38	173	41 59	20	340	14	144	56	0,00	59	985
pu	Rate	13.9	28.2	27.2	9.2	195.2	4.4	64.1	25.4	5.0	35.4	508.0
Midland	Deaths	88	434 1	95	31 29	490	15	217	33	17	120	1,533 4
P	Rate	14.4	107.6	26.1	7.5	175.4	3.7	75.2	24.9	5.8	36.3	474.8
North Midland	Deaths	37	276 10 389 10	67	18	344 14	11 9	193	171	77	202	1,218 47
- E	Rate I	18.1	97.6	24.9	13.0	178.3	3.3	72.9	8.8	5.7	35.9	504.3
North Western	Deaths	87	614 1 898 1	120	59	858 1	16	351 194	134	26	173	2,427 5
nd lings	Rate	13.9	8-201	24.8	8.6	174.8	3.9	46.4	8.8	3.6	24.5	443.0
East and West Ridings	Deaths	42	326 1 475 1	75	26	529 1 366 1	8 11	238	63	14	74	1,392 4
ııı	Rate	12.5	29.6	24.5	5.8	179.8	3.9	74.7	27.6	8.53	33.8	500.4
Northern	Deaths	32	333 1	63	15	462 1 329 1	10	192	71 16	24	84	1,286 5
nd	Rate	13.2	102.1	22.5	9.3	184.0	3.6	68.9	24.1	5.5	31.0	463.2
England and Wales	Deaths Rate	422 667	3,277 1	722	266 286	5,904 1 4,429 1	117	2,211	773 257	177	994 824	M 14,863 4 F 13,248 4
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(F)	NH.	MH	ZH.	NH NH	FI	FX	MH	ZH.	MH
Cause of death	(and ICD No.)	Monstrosity (750)	Spinda bifida and meningocele (751)	Congenital hydro- cephalus (752)	Other congenital mal- formations of ner- vous system and sense organs (753)	Congenital malformations of circulatory system (754)	Cleft palate and harelip (755)	Congenital malformations of digestive system (756)	Congenital malformations of genito-urinary system (757)	Congenital malformations of bone and joint (758)	Other and unspecified congenital malformations (759)	CONGENITAL MALFORMATIONS (750–759)

MISCELLANEOUS

Corrected notifications, and deaths assigned to certain uncommon infectious diseases

Some infectious diseases which represent major public health problems in some parts of the world are seldom, if ever, found in England and Wales. The last year in which a case of cholera was notified was 1948; plague and typhus fever are likewise of rare occurrence. There are other infectious diseases, for example, relapsing fever, notifications of which are confined to an odd case or two. Some non-notifiable infections are occasionally found on death certificates. Numbers of corrected notifications and deaths for a few of these uncommon infectious diseases are shown in Table CXIII together with the administrative area of assignment and the county in which the area is situated.

Two cases of relapsing fever were notified in Lancashire, neither of which proved fatal. In the ten years 1950-59 there were 7 notifications of this disease, none of them being fatal cases. There was one smallpox notification in 1959, in Liverpool, also non-fatal. One male death in Cheshire was assigned to typhus fever, but there was no corresponding notification. The only other death assigned to this cause in the last ten years was that of a female in 1953.

Four male deaths in 1959 were classified to actinomycosis, a condition responsible for 74 deaths during 1950-59. One female death was classified to brucellosis, making a total of 15 deaths for the same period.

Table CXIII. Corrected notifications and deaths assigned to a few uncommon infectious diseases in England and Wales, 1959

Notifications										
Disease (and IC	CD No.)	Administrative area of assignment	County	Number of cases						
Cholera (043)	$\left\{egin{matrix}\mathbf{M}\\\mathbf{F}\end{smallmatrix} ight.$	-	-							
Plague (058)	$\left\{egin{array}{c} \mathbf{M} \\ \mathbf{F} \end{array}\right.$		_							
Relapsing fever (071)	$\left\{egin{matrix} M \\ F \end{array}\right.$	Worsley U.D. West Lancashire R.D.	} Lancashire	1 1						
Smallpox (084)	$\left\{ egin{matrix} M \\ F \end{array} \right.$	Liverpool C.B.	Lancashire	1						
Typhus fever (100–108)	${M \choose F}$	_		Remarks Generals						
Malaria (contrac in England a Wales) (110-117	ind (F	=	=	=						

		Deaths		
Disease (and ICI	O No.)	Administrative area of assignment	County	Date of death
Cholera (043)	$\left\{\begin{matrix} M \\ F \end{matrix}\right.$			_
Brucellosis (044)	$\left\{ \begin{smallmatrix} M \\ F \end{smallmatrix} \right.$	South Shields C.B.	Durham	31st May
Diphtheria (055)	${M \atop F}$			Strainballia Stainballia
Plague (058)	$\left\{ _{F}^{M}\right.$	_		
Anthrax (062)	$\left\{ \begin{matrix} M \\ F \end{matrix} \right.$			
Relapsing fever (071)	$\left\{ \begin{matrix} M \\ F \end{matrix} \right.$	_ _	_	_
Smallpox (084)	$\left\{\begin{matrix} M \\ F \end{matrix}\right.$	=	_	
Rabies (094)	$\left\{ \begin{matrix} M \\ F \end{matrix} \right.$	_		
Typhus fever (100–108)	${M \atop F}$	Nantwich R.D.	Cheshire —	8th February
Actinomycosis (13	32) \begin{cases} M & M & M & M & M & F & \end{cases}	East Grinstead U.D. Sedgley U.D. Dover M.B. Burnley C.B.	East Sussex Staffordshire Kent Lancashire	12th February 14th March 2nd July 19th November

In a slightly different category is diphtheria. No deaths in 1959 were assigned to this disease. There were 102 corrected notifications, half of males and half of females. The areas of assignment are shown in Table CXIV (page 186). Of these cases, 74 (73 per cent) were notified in London Administrative County; Finsbury Met. B. accounted for 50 cases, nearly half the notifications for the country as a whole.

Table CXIV. Corrected notifications of diphtheria, 1959, England and Wales

			Numbe	r of cases
Administrative of assignmen		County	М	F
Wycombe R.D.		Buckinghamshire	1	. 2
Derby C.B.		Derbyshire	1	
Plymouth C.B.		Devon	1	2
Bridport R.D.		Dorset		1
Liverpool C.B.		Lancashire		1
Salford C.B.		39		1
Huyton-with-Roby U	J. D.	29	1	1
Battersea	Met. B.	London A.C.		1
Camberwell	,,	,,	4	3
Finsbury	,,	33	29	21
Hammersmith	,,	,,	1	
Hampstead	,,	22		1
Holborn	99	29		. 2
Islington	,,	99	3	6
Stepney	99	99	2	
Stoke Newington	23	23		1
Amble U.D.		Northumberland	1	
Brierley Hill U.D.		Staffordshire	1	
Stafford R.D.		29		· . 1
Coventry C.B.		Warwickshire	3	- 3
Kingston upon Hull	C.B.	Yorkshire, E.R.		2
Leeds C.B.		Yorkshire, W.R.		1
Rotherham C.B.		,,		1
Rawmarsh U.D.		**	2	
Wetherby R.D.		99	1	

Deaths from encephalitis certified as secondary to infectious disease

Table CXV (page 187) shows the numbers and sex-age distribution of deaths in which an infectious disease was the underlying cause, but where encephalitis was also mentioned on the certificate of cause of death, either in Part I as a complication of the infectious illness or in Part II as a condition contributing to the death.

Table CXV. Deaths from encephalitis certified as secondary to infectious disease, by underlying cause, sex, and age, 1959, England and Wales

	65 and over	11	11	1 -	11	11	11	-	***	44
	45-64	11	- 1		11	1-	1-	12	1-	- 4
9	25-44	11		11	-	11	11		-	7
s diseas	10-14 15-24 25-44	-	1		1 1		11	1	1 2	e-
rection	10-14	1-	1			1 1	11	-	-	44
Deaths from encephalitis secondary to infectious disease	5-9	26	 €			11	11		- 1	WE
seconda	-4	2			11	1.1	1 1	11	1-	-4
phalitis	3-	11	-	11	1 1	11	11	11		
m ence	2-	.] =	11	11	11	11	11	11		1-
aths fro	1-	60	11		11		11	11	-	ოო
De	9		11		1 1	11		12		2
	All	5 10	94	1-	14	1-	1-	w4	40	18
All	deaths	64	10	33	1	n m	1	2,605	2	2,691
		{M	{ F	{F	{M		{ F	{M	respiratory $\left\{ \frac{M}{F} \right\}$	{H
40000	Cause of ucau	:	:	:	:	:	:	oneumonia	gestive or	Total
		Measles	Chickenpox	Herpes zoster	sdumM	096.0 Herpes febrilis	Cerebral malaria	Influenza with pneumonia	Influenza with nervous manifestations, but without digestive or respiratory symptoms	
0	No.	085	087	880	680	0.9	116	480	483	

In 1959 there were no deaths with secondary encephalitis from tuberculosis of the meninges and central nervous system, whooping cough or rubella; diseases which had been associated with secondary encephalitis in 1958. In the case of measles it is possible to relate deaths to notifications although the latter are admittedly somewhat incomplete. The results during 1955-59 were as follows:

	Corrected notifications*		Deaths	Case fatality rate per 100,000 notifications			
		Total	With encephalitis	Total	With encephalitis		
1955–57 1958 1959	1,488,037 259,308 539,524	301 49 98	66 12 15	20·2 18·9 18·2	4·4 4·6 2·8		

^{*}Including original cases in Port Health Districts.

Tetanus

Deaths from tetanus are assigned to tetanus (ICD No. 061) when the condition follows vaccination or a slight injury such as a scratch or abrasion; if the injury is more serious, the death is assigned to the injury. There has been a considerable reduction in the deaths assigned to tetanus in recent years, but 1959 showed an increase of 5 such deaths:

	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Males	61	61	59	42	37	28	23	22	23	10	17
Females	18	10	22	21	24	9	10	15	5	10.	. 8
Persons	79	71	81	63	61	37	33	37	28	20	25

Of the 25 deaths assigned to tetanus in 1959, 12 were of children under 15 years of age.

Deaths involving tetanus but assigned to another underlying cause numbered 13 in 1959, compared with 21 in 1958; 4 of these deaths were of children under 15 years of age.

Details of all the deaths in 1959 are given in Table CXVI (page 189).

Table CXVI. Deaths due to tetanus, by sex and age, showing cause of tetanus, 1959, England and Wales

Age	Sex	Cause of tetanus
		(a) assigned to tetanus (ICD No. 061)
1 year 1	F M M F F M M F F M M M M M M M M M M M	Tetanus* Tetanus* Superficial graze or cut Tetanus* Small injury to knee Scalding of the right ankle Crushing of the right middle finger in the kitchen mangle Tetanus* Knee caught on a piece of old iron while playing on waste ground Crush injury to finger sustained in garden Accidental fall and cut knee Blister caused by tight-fitting boots while working on a farm Tetanus* Haemorrhagic blister beneath left big toe Inflammatory wound on right middle finger Crushed thumb while opening a sash window Sole of left foot punctured by nail Tetanus* Abrasion of middle toe due to fall of a car spring Tetanus* Cut on thumb Injury to left big toe, bruised by dropping of heavy sheet plate at work Tetanus* Varicose ulcer

(b) assigned elsewhere

8 days	F	Prematurity
2 months	M	Surgical repair of right inguinal hernia and umbilical hernia
4 years	F	Compound fracture of the right ulna
11 ,,	M	Compound fracture of the right forearm
21 ,,	M	Crushed finger when unloading coal from truck
25	M	Cut forefinger of left hand while cutting turnips on farm
32 ,, 47 ,, 52 ,,	M	Infected wound of left knee
47 ,,	F	Bitten on toe by a dog
52 ,,	F F	Chronic abscesses of abdominal wall
61	M	Tetanus following an operation for removal of duodenal ulcer
67 ,,	M	Acute pulmonary oedema
68	F	Cerebral anoxia, respiratory obstruction
70 ,,	M	Abrasions to hand and scalp following fall in garden
, ,,		

^{*}No cause stated.

Deaths following vaccination or other prophylactic inoculation

This section gives details of deaths classified to ICD Nos. E940-E942, vaccinia, postvaccinal encephalitis, and other complications of smallpox vaccination, and to E943, E944, post-immunization jaundice and hepatitis, and other complications of prophylactic inoculation. Two such deaths were recorded in 1959:

- (a) female aged 3 months certified as acute encephalitis following vaccination; further investigation revealed that the death was due to an overwhelming vaccinal infection, without encephalitis.
- (b) male aged 20 years reported by the coroner as due to left ventricular failure; subsequent histological investigation revealed postvaccinal encephalomyelitis.

In addition, two deaths were classified to other underlying causes but vaccination was either mentioned on the certificate or ascertained by enquiry to have been associated with the death:

- (a) female aged 6 months certified as I(a) Convulsions, I(b) Encephalitis. Vaccination had taken place 8 days previously but encephalitis could not be attributed to this.
- (b) female aged 15 months originally certified as I(a) Encephalomyelitis, subsequently revised to I(a) Respiratory paralysis due to polyneuritis following vaccination without any definite association being established.

Deaths by cause, sex and age connected with the administration of anaesthetics

Table CXVII (page 191) shows that there were 414 deaths in 1959 in which there was mention of the administration of anaesthetics on the death certificate. Of these, 180 (43 per cent) were of people aged 65 and over. Of the 414 deaths, 74 (18 per cent) were classed to malignant neoplasms and a further 47 (11 per cent) to intestinal obstruction and hernia. It should be pointed out that mention of anaesthetics does not necessarily mean that they played any large part in the train of events leading to death or that the deaths mentioned include all those in which anaesthetics played a part.

Table CXVII. Deaths by cause, sex, and age, connected with the administration of anaesthetics, 1959, England and Wales

'er	_	90	I I	18	0====	en (1 1202	150	112	144
65 and over	H	g,	1 1			1	1 '	1 1 -	1	11-	1
65 a	Z	8		16	9 9	4-	20 ==	241	2132	110	=4
	H	36		4		. •		-	-61	114	161
55-	M	41	111 1	6	111-1	-1	14	1 14-0	-4	1 1 9	2 1
45-	F	29	1111	9	wu -4	-	111		1-1	1-0	111
4	M	28	$I_i \Gamma \hat{\Gamma} = \Gamma$	8	1-11-	[]	111	60 0	101	110	11-
	F	13	111	7	2111-	[]	11-	1 1111	[4]	21 16	111
35	M	18		ю	11111	-		1 -0	111	116	"
	Œ.	15	111-1	1	11 17	11	111	1 111-	111	0 1	11-
25-	W	นก	1111	1	111-1	11	111	1 9111		-	-11
	Ħ	w	-11 1	1		11		1 11,1	111	- -	111
15-	M	9	-11 1	g.vod	1-111	1 [111	1 11-1	111	11-	-11
	IL.	9	1111	1	11111	11	111	7	111	1-0	111
20	M	11		I	-1111	11		m = 0	111	1 2	19
-	H	90	1111	1	111-1	11		1 -1-1	111	101	111
9	M	13	111 1	1	111-1	11		- 4	-11	ოო	111
8	F	202		40	2020	4	-00	20 wow 12	400	13	17
Ali ages	M	212		34	ma m=	1	102	4 0 00 0 7	3 6 25	255	N4N
	Cause of death	All causes	Tuberculosis of respiratory system Tuberculosis, other forms Syphilis and its sequelae Shiphilis and its equelae All other diseases classified as infective and parasitic	Malignant neoplasms, including neoplasms of lymphatic and haematopoiciet itsusas	of unspecified nature Diseases of thyroid gland Diseases of thyroid gland Diseases of eye Chronic rheumatic heart disease.	Arterioscelerotic and degenerative heart disease Hypertension with heart disease Hypertension without mention of	Diseases of arteries Bronchitis Hypertrophy of tonsils and	adenoids detects and supporting structures Ulcer of stomach and duodenum Appendictiis.	Gastritis, duodenitis and colitis, except diarrhoca of the newborn Cholelithiasis and cholecystitis Hyperplasia of prostate Deliveries and complications of		Motor vehicle accidents Accident falls All other accidents
ICD	No.		001-008 010-019 020-029 Rem. 001-138	140–205	250–254 260 370–389 410–416	420-422 440-443 444-447	450-456 500-502 510	530–535 540, 541 550–553 560, 561, 570	543, 571, 572 584, 585 610 640-689	750–759 Rem.140-795	E810-E835 E900-E904 Rem.E800-E962

Therapeutic misadventures

The International Statistical Classification directs that ICD Nos. E950-E959, which deal with therapeutic misadventure and late complications of therapeutic procedures, are not to be used for primary death classification if the condition for which the treatment was given is known. Deaths from therapeutic misadventures can therefore only be analysed by secondary tabulation. Not every complication arising after treatment is a therapeutic misadventure; for example, pulmonary embolism following operation. Cause of death coders are instructed to keep a record of the cause of death in all cases where treatment had an untoward result, but even so, some cases may be missed.

From 1954 onwards special analyses have been made of all deaths finally judged to have been due to therapeutic misadventures, and the cases have been grouped under four headings, so as to bring out the nature of the misadventure, with the following results:

	Number of deaths				
Fatal therapeutic misadventures due to	1954–56 (annual average)	1957–58 (annual average)	1959		
(i) adverse reaction to drug or therapy (ii) mistake in drug administered (iii) overdose of drug (iv) accident in technique	101 4 96 30	132 2 100 54	136 3 127 68		

Deaths from adverse reactions to drug or therapy have increased from an annual average of 101 during 1954-56 to 136 in 1959, and there has been a similar increase in deaths from an overdose of drug, from 96 to 127. Fatal accidents in technique have also increased from 30 to 68.

So far as deaths connected with drugs are concerned, the increase may be simply a reflection of the increase in usage and of the availability of many new varieties of pharmaceutical products. For example, the following deaths occurred as misadventures associated with chlorpromazine:

						Total
1954-56	(3 years)	Largactil	4,	Chlorpromazine	1,	5
1957-58	(2 years)	29	4,	,,	5,	9
1959	(1 year)	,,	4,	,,	4, Chlorpromazine hydrochloride 1,	9

Unfortunately there are no basic data on the relative amounts of different drugs being prescribed, nor on the numbers of individuals receiving them.

Table CXVIII (page 194) shows, for adverse reactions to drugs or therapy, both the nature of the reaction and the terminal complication if this is different. Some modern drugs produce blood dyscrasias as side effects, and in 1959 there were 12 deaths attributed to agranulocytosis and 25 to aplastic anaemia as a result of the administration of these drugs. The drugs or therapy with which they were associated were:

Agranulocytosis

Carbimazole	1	Neomercazole	1
Chloramphenicol	1	Nitrogen mustard	1
Chlorpromazine hydrochloride	1	Radiation	1
Dindevan	1	Sulphonamides	1
Largactil	1	Thiotepa	1
Myocrisin	1	"Anti-depressive drug"	1
Aplas	stic an	aemia	
Butazolidin	2	Novalgin	1
Chloramphenicol	3	Para-aminosalicylic acid	1
Chloromycetin	2	Pencillin and chloromycetin	1
Cytamen	1	Phenylbutazone and plaquenil	1
Largactil	1	Radiation	4
Methylthiouracil	1	Streptomycin, P.A.S. and I.N.A.H.	1
Myleran	1	Transfusions	1
Myleran and blood transfusion	1	Tridione	1
Mysoline	1 .	Antibiotic (not specified)	1

Jaundice, hepatitis, liver failure or atrophy were connected with the administration of chlorpromazine (4 deaths), Largactil (1 death), Marsilid (1 death) and transfusions (4 deaths).

Table CXIX (page 197) shows that there were 127 deaths due to overdoses of drugs taken therapeutically, 98 of these (77 per cent) being in the barbiturate group.

Table CXXI (page 198) shows the nature of fatal therapeutic misadventures due to accidents in technique. Whereas in 1957-58 there were 6 deaths due to packs or swabs being left in operation sites, there were no deaths assigned to this cause in 1959.

In all these tables the agents are as described by the coroner and no attempt has been made to amalgamate synonymous terms.

Table CXVIII. Fatal therapeutic misadventures due to adverse reaction to drug or therapy, 1959, England and Wales

Drug or thera	ру	No. of cases	Nature of adverse reaction	Terminal complication if different from preceding column		
Aminophylline		1	Acute heart failure			
Anticoagulant		7 1 2 1 2 1 2	Alimentary haemorrhage Cerebral haemorrhage Haematemesis Haemorrhage	Anaemia Hypostatic pneumonia (1 case)		
		1	Retroperitoneal haematoma	Intestinal obstruction (1 case)		
Barium enema		1	Vagal inhibition			
Butazolidin		2	Aplastic anaemia	Cardiac failure (1 case)		
Carbimazole		1	Agranulocytosis			
Chloramphenicol		4 1 3	Agranulocytosis Aplastic anaemia	Bronchopneumonia Bronchopneumonia (1 case) Cerebral haemorrhage (1 case)		
Chloromycetin		2	Aplastic anaemia	Acute pulmonary oedema (1 case)		
Chlorpromazine	,	4 1 1 1 1 1	Hepatitis Jaundice and liver failure Subacute yellow atrophy of liver Toxic hepatitis	Coronary atheroma Congestion of the lungs Hepatic failure Bronchopneumonia		
Chlorpromazine hydrochloride		1	Agranulocytosis			
Cortisone		7	Adrenal failure Hypo-adreno-corticism Ileo-sigmoid anastomosis Multiple erosions Perforated gastric ulcer leaking slowly Perforated ulcer of small bowel Perforation of small bowel	Bronchopneumonia Uraemia Carcinomatosis Carcinoma of breast		
Cytamen		1	Aplastic anaemia			
Dindevan		3	Agranulocytosis Cerebellar haemorrhage Haemorrhagic nephritis	Uraemia		
Diodone		1	Hypotension			
Electro-convulsive ti	nerapy	8 1 2 1 1 1 1 1 1 1 1	Acute cardiac failure Acute heart failure Chronic specific aortitis Fracture of pubic bone Multiple emboli, pulmonary and mesenteric Prolonged cerebral anoxia Ruptured atrophic urinary bladder	Pulmonary embolism Shock		
Gold	•••	2	Meningitis Toxic nephritis	Renal failure		
Insulin		8 1 4	Coma Hypoglycaemia	Bronchopneumonia Acute pulmonary oedema (1 case) Asphyxia (1 case) Cellular brain damage (1 case) Myocardial degeneration (1 case)		
		2	Hypoglycaemic coma Sudden cardiac arrest	Myocardial infarction (1 case)		
Largactil		4 1 1 1 1 1	Agranulocytosis Aplastic anaemia Hepatic and renal necrosis Jaundice	Bronchopneumonia Cerebral tumour Toxic jaundice Bronchopneumonia		
Marsilid .		1	Acute hepatic necrosis			

Table CXVIII—continued

Drug or therapy	No. of cases	Nature of adverse reaction	Terminal complication if different from preceding column		
Mecamylamine	1	Paralytic ileus	Asphyxia		
Mersalyl	1	Renal failure	Chronic bronchitis and emphysema		
Methylthiouracil	1	Aplastic anaemia			
Myleran	1	Aplastic anaemia			
Myleran and blood transfusion	1	Aplastic anaemia	Leukaemia		
Myocrisin	1	Agranulocytosis			
Mysoline	1	Aplastic anaemia			
Neo-Mercazole	1	Agranulocytosis			
Nitrogen mustard	1	Agranulocytosis	Respiratory infection		
Nitrous oxide and oxygen	1	Fallot's tetralogy and cerebral	Acute cardiac failure		
		anoxia	THE SUITE OF THE S		
Novalgin	1	Aplastic anaemia	Acute myocardial failure		
P.32	1	Anaemia	Pneumonia		
Para-aminosalicylic acid	. 1	Aplastic anaemia			
Penicillin	2 1 1	Anaphylaxis Exfoliative dermatitis	Bronchopneumoria		
Penicillin and chloromycetin	1	Aplastic anaemia			
Pentothal, gas and oxygen	1	Prolonged cerebral anoxia during anaesthetic for mobilization of stapes bone			
Phenindione	2 1 1	Acute ulcerative enteritis Intra-pulmonary haemorrhage	Intestinal haemorrhage Lung abcess		
Phenylbutazone, Plaquenil	1	Aplastic anaemia			
Phenylindanedione	1	Cerebral haemorrhage			
Prednisolone	2	Haematemesis			
	1	Uraemia			
Procaine	1	Hypersensitivity			
Radiation	31 4 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1	Agranulocytosis Aplastic anaemia Bladder necrosis Fibrosis of lung Irradiation dermatitis and lupus Irradiation pulmonary fibrosis Irradiation pulmonary fibrosis Irradiation pulmonary fibrosis Multiple faecal fistulae and urinary fistulae Necrosis of bladder Paraplegia Post irradiation gastric ulcer Post radiation gastric ulcer Post radiation fibrosis of lung Post radiation necrosis Post radiation necrosis Pulmonary fibrosis Radiation nephritis Radiation reaction Radionecrosis Radionecrosis of colon Radionecrosis of colon Radionecrosis of neck Radionecrotic ulcer of vulva Radiom recrosis of bladder X-ray necrosis	Pyelonephritis Carcinoma of bronchus Uraemia Renal failure Lymphosarcoma Haemorrhage from bladder fistula Haematemesis Lobar pneumonia Carcinoma of neck Bronchopneumonia (1 case) Massive haemoptysis (1 case) Right ventricular failure (1 case) Uraemia Bronchopneumonia Laryngeal obstruction Acute haemorrhage Staphylococcal pneumonia Arterial bleeding shock (1 case) Bronchopneumonia (1 case) Senile inanition and cachexia Renal failure		

Table CXVIII—continued

Drug or the	rapy		No. of cases	Nature of adverse reaction	Terminal complication if different from preceding column		
Radio active gold a	nd X-	ray	1	Bilateral pulmonary fibrosis and pleural effusion	Respiratory failure		
Rastinon		•••	1	Allergic enteritis	Bronchopneumonia		
Soneryl		•••	1	Renal failure			
Steroid therapy		•••	4 1 1 1	Adrenal atrophy Atrophy of the bladder Osteoporosis Sodium retention and oedema	Haematemesis Shock due to rupture of bladder Bronchopneumonia Congestive cardiac failure		
Streptomycin	•••	•••	1	Sensitivity	Subdural haemorrhage		
Streptomycin, P.A.S. I.N.A.H	S. and	•••	1	Aplastic anaemia			
Sulphonamides	•••	***	1	Agranulocytosis	Septicaemia		
Thiotepa	•••	•••	1	Agranulocytosis			
Transfusions		•••	6 1 1 1 1	Aplastic anaemia Cardiac failure Fulminant hepatitis Homologous serum hepatitis Homologous serum jaundice Post-transfusional hepatitis	Acute hepatic necrosis Hepatic necrosis Hepatic coma		
Tridione	***	•••	1	Aplastic anaemia			
Urolucosil	*** ;	***	1	Anaphylactoid purpura	Intracranial haemorrhage and oedema		
Xylocaine	•••	•••	1	Intolerance	Hypostatic pneumonia		
Drug therapy	***	•••	3				
Antiobotic	•••	•••	3 2 1	Acute enteritis	Toxaemia		
Anti-depressive		***	1	Aplastic anaemia Agranulocytosis	Bronchopneumonia Bronchopneumonia		
Total		•••	136				

Table CXIX. Fatal therapeutic misadventures due to overdose of drug, 1959, England and Wales

	Administra- tion not stated	2 422-2 2	
Cases	Medically administered		
	Medically administered		
	Drug or combination of drugs	Insulin Luminal Nembutal Pacatal, Amytal and Sonalgin Personnia Phenobarbitone Physeptone Salicylate Seconal Sodium Amytal Soneryl Tuinal Not stated	
	Administra- tion not stated		
Cases	Medically Self-administered	- -4 -2 0 0	
	Medically administered	1-1111111111111111	
	Drug or combination of drugs	Adrenaline Amphetamine Amylobarbitone Amylobarbitone and aspirin Amytal Aspirin Aspirin Aspirin Aspirin Barbital Barbiturate Barbiturate and aspirin Barbiturate and paraldehyde Barbiturate and paraldehyde Carbrital Barbiturate and paraldehyde Carbrital Car	

Table CXX. Fatal therapeutic misadventures due to mistake in drug administration, 1959, England and Wales

Therapeutic misadventure associated with	Nature of misadventure
Paraldehyde Paraldehyde Quinidine sulphate	Medically administered (3 cases) Excessive dose, misunderstanding as to drug to be injected Overdose, intravenous injection given in error Inadvertently injected instead of Ethiodan

Table CXXI. Fatal therapeutic misadventures due to accident in technique, 1959, England and Wales

Therape misadven associated	ture	Nature of misadventure					
Air embolism	11 cases	Air embolism, aortotomy for the repair of an aneurysmal rupture of the aortic sinus. Air embolism during blood transfusion, gastrectomy for carcinoma of stomach. Air embolism produced by blood transfusion following left lower lobectomy for bronchiectasis. Air embolism, repair of interatrial septal defect. Air embolism due to cutting of a vein within which pressure was less than that of the atmosphere, craniotomy for right hemangioblastoma of cerebellum. Peripheral circulatory failure, mid-brain infarction, air embolism, air entered the veins during operation. Air embolism following transfusion for umbilical haemorrhage. Air embolism following operation for varicose veins. Air embolism following operation for excision of malignant glands in the neck. Air embolism when blood transfusion was being given during an operation for a tumour of the brain. Air embolism following operation for malignant cerebellar glioma.					
Anaesthesia	2 cases	Respiratory failure due to scoline poisoning during anaesthetic for appendectomy. Cerebral necrosis and hypostatic pneumonia, cerebral anoxia sustained as a consequence of the deprivation of oxygen whilst undergoing thyroidectomy.					
Apparatus	1 case	Asphyxia due to poliomyelitis accelerated by the failure of a mechanical respiration apparatus.					
Infection	13 cases	Uraemia, septicaemia, wound infection, colostomy for imperforate anus. Meningitis, post-operative infection, craniotomy for cerebral aneurysm. Senility and general debility, poor resistance, fractured neck of right femur, sepsis in operation wound for femur might be due to gross infection in the ward.					

Therapeutic misadventure associated with	Nature of misadventure
Infection—(contd.)	Hypostatic pneumonia, recumbency, infection of operation wound, fractured neck of femur. Pneumonia, post-operative toxaemia, toxins from the wound, amputation above knee. Staphylococcal pyaemia, infected operation wound. Toxic myocarditis, lung and wound sepsis associated with coronary atheroma, laparotomy acute appendicitis. Septicaemia, subdeltoid abcess following injection of hydrocortisone in shoulder for rheumatism. Bronchopneumonia, tetanus following an operation for removal of duodenal ulcer. Diffuse bronchopneumonia from infection from septicaemic abcess right shoulder joint following hospital injection of hydrocortisone for periarthritis. Toxaemia due to toxic epidermal necrolysis caused by an unidentified part of treatment for conjunctivitis. Staphylococcal septicaemia with lung abcess, staphylococcal stitch abcess in a wound. Acute pulmonary oedema, bilateral bronchopneumonia and surgical wound sepsis due to insertion of acrylin femoral head for a fracture of the neck of left femur.
Instruments 25 cas	es
4 2 2 4	Circulatory failure due to haemorrhage from tearing of the inferior vena cava during adrenalectomy.
Appendectomy	Peritonitis, bowel damage during operation and peritonitis followed.
Biopsy	Lateral haemorrhage due to torn liver due to biopsy for amyloid disease. Peripheral circulatory failure, peritonitis, perforation small bowel during biopsy, papilloma pelvic colon. Intraperitoneal haemorrhage due to biopsy puncture of the liver for the investigation of appendix.
Cholecystectomy	liver for the investigation of anaemia. Liver failure, cholecystitis, portal vein inadvertently excised during cholecystectomy.
Cystoscopy	Renal failure due to acute renal tubular necrosis due to perforating ulcer of the bladder due to mucosal abrasions following cystoscopy.
Gastrectomy	Acute fulminating haemorrhagic pancreatitis, damage to pancreas during partial gastrectomy for pyloric ulcer. Bronchopneumonia due to subacute intestinal obstruction and local peritonitis due to peritoneum being perforated by tube being inserted after gastrectomy.
Nephrectomy	Ruptured renal vein and artery during nephrectomy for
Oesophagoscopy	Empyema due to perforation of the oesophagus during oesophagoscopy for carcinoma of oesophagus.
Prostatectomy	Generalised peritonitis, ruptured urethra, instrumentation for urinary retention whilst under anaesthetic for operation for peritonitis.
Sigmoidoscopy	Pulmonary embolus (post-operative), coronary atheroma, operation, peritonitis due to perforation of rectum during sigmoid scopy.
Thoracotomy	Haemorrhage and shock due to operative tear at heart due to thoracotomy for obliterative pericarditis.
Miscellaneous	Haemorrhage, erosion of superior vena cava by tracheotomy tube, staphylococcal septicaemia. Peritonitis, perforated small bowel, Souttar's tube introduced into oesophagus for carcinoma.

Therapeutic misadventure associated with	Nature of misadventure
Instruments—(contd.) Miscellaneous —(contd.)	Internal haemorrhage following instrumental liver injury during operation for bleeding gastric ulcer. Bladder inadvertently perforated, operation for carcinoma of prostate. Mediastinitis and peritonitis due to perforation of oesophagus, perforation by tube used surgically. Peritonitis, leak from duodenal tear, perforation got torn at operation. Tracheal haemorrhage due to erosion of the innominate artery by an indwelling tracheal tube. Shock and haemorrhage, puncture of aorta during operation, carcinoma right upper lobe. Haemorrhage due to erosion of an artery by a tracheotomy tube necessarily applied for relief of respiratory failure, encephalitis lethargica. General peritonitis due to perforation of acute gastric ulcer, probably caused by bruising of the stomach wall by a bougie during dilatation of a chronic traumatic oesophageal stricture. Toxaemia due to chronic bronchitis accelerated by a gunshot wound of the chest received during first world war and three pieces of rubber drainage tubing were left in an operation site in the chest more than a year before the death.
Needling 3 cases	Pericardial haemorrhage following needle exploration for pericardial effusion. Haemorrhage following needle biopsy of the liver, needle biopsy for confirmation of Hodgkin's disease. Paracentesis of pericardium, the wall of the heart was punctured.
Post-operative repair	
6 cases	Haemorrhage, a ligature partly slipping off a pulmonary artery branch. Cardiac arrest following a severe haemorrhage from a large branch of the pulmonary artery due to inadvertent slipping of a ligature following an operation for removal of cancer of the lung and chest wall. Myocardial degeneration due to coronary atheroma accelerated by haemorrhage from cystic artery following cholecystectomy, ligature slipped after operation for removal of bladder. Haemorrhage due to slipped ligature following oophorectomy for carcinoma. Intra-abdominal haemorrhage, slipped ligature, operation for removal of carcinoma of stomach. Retroperitoneal haemorrhage from suture in left ovarian vein after operation for colectomy of carcinoma of colon.
Transfusions with incompatible blood 4 cases	Pituitary infarction and renal failure due to a postpartum haemorrhage due to childbirth, accelerated by incompatible blood transfusion. Peripheral vascular collapse, necrotising enteritis, total gastrectomy for cancer of stomach, incompatible blood transfusion. Renal failure resultant upon an incompatible blood transfusion, operation for diaphragmatic hernia. Coronary occlusion due to atheroma, renal tubular necrosis due to mismatched blood transfusion.

Therapeutic misadventure associated with	Nature of misadventure
Other misadventures 3 cases	Perforated oesophagus following operation for carcinoma of oesophagus. Haemopericardium due to perforation of the right ventricle caused by penetration of polythene catheter inserted into the inferior vena cava to relieve biliary fistula. Cardiac arrest following operative perforation of origin of right pulmonary artery, with uncontrollable haemorrhage.
Total 68 cases	

Deaths from bites and stings of venomous animals and insects

Four deaths from this cause (ICD No. E927) were registered in 1959. Deaths from this cause since 1949 are shown in Table CXXII by sex, according to the animal or insect involved.

Table CXXII. Deaths from bites and stings of venomous animals and insects, 1949 to 1959, England and Wales

	Animal or insect									
Year	В	ee	W	asp	Not stated					
	М	F	M	F	M	F				
1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	1 2 -1 1 1 1 1 1	1 2 - 2 - 1	1 1 1 1 1 3 - 1 3 2	7 3 2 1 2 1 1 3 3	1	1 1 2				
Total	9	7	14	23	1	4				

Deaths in institutions

In Table CXXIII (page 203) deaths registered in England and Wales in 1959 are analysed by cause of death and the type of place where death occurred. Of the total of 527,651 deaths registered, 274,352 (52 per cent) took place in institutions of one kind or another. The proportionate distribution per 1,000 deaths in 1959 compared with five years previously was as follows:

Psychiatric hospitals $\begin{cases} 1 \\ n \end{cases}$	v.H.S.					1959 30	1954- 26
rsychiatric nospitais \r	on-N.H.S.			•••		1	1
Other hospitals and insti	tutions	∫N.H	.S. N.H.S.			432	379
for the sick		l non-	N.H.S.	•••	• • •	27	27
Other institutions .		•••	• • •		***	31	27
At deceased's own home	•••	•••		•••	• • •	431	495
Other private house, etc.		•••			•••	48	45
				Total		1,000	1,000

The percentage of institutional deaths has increased over the five years from 46 to 52.

There were 98,393 deaths assigned to neoplasms in 1959, of which 52,531 (53 per cent) occurred in either general or psychiatric hospitals; 1,229 (1 per cent) in other institutions; 41,990 (43 per cent) in the deceased person's own home and 2,643 (3 per cent) elsewhere.

Of the 7,862 deaths assigned to influenza, 4,330 (55 per cent) took place in the deceased person's home, compared with 2,157 (27 per cent) in hospitals and other institutions for the care of the sick other than psychiatric ones.

Arteriosclerotic and degenerative heart disease was the principal cause of death in psychiatric hospitals, followed by pneumonia and by vascular lesions affecting the central nervous system. These three causes accounted respectively for 36, 13 and 10 per cent of the deaths in these hospitals.

Table CXXIII. Deaths by cause and sex according to type of institution, etc., in which they occurred, 1959, England and Wales

In other private houses and other	places	Ľ4	6 11,169	24 22 25 25 25 25 25 25 25 25 25 25 25 25	1		00	-4	1,938	, 22	888	719	116	089	110 32 229 45 1	35
Ir		M	14,376	388 38 23	1		ا ا	11	705	17	264	81	32	30	44471.00	9
At deceased person's own	home	ш	111,359	546 257 37 134	1	23	72	16	19,061	280	8,232	7,746	951	568 95 46	1,328 374 228 228 580 43 103	427
At de persor	ho	M	116,395	1,294 892 28 219	00	34	85		22,929	165	8,910	2,800	983	772	765 313 313 326 21 59	241
Other institutions		H	9,632	25	1	7	6	11	710	9	339	276	26	16	884-17	43
Oth		M	6,587	\$242	1	11.	2	11	519	37	221 124	102	23	L 80	27 84 81 84	6
	than .S.	F	9,528	3446	I		150	1-	2,181	28	872 141	913	144	15	50 17 10 10 10 10 10 10 10 10 10 10 10 10 10	20
als and s for he sick	Other than N.H.S.	M	4,528	41 16 4 6	ı		0	1 "	1,340	37	488	221	92	55	3 10 10 3	6
Other hospitals and institutions for the care of the sick	.S.	Œ.	106,478	1,238 528 136 138	1	102	266	33	21,544	271	8,027 1,708	7,700	1,652	1,656	2,170 262 339 1,318 1,63	758
O	N.H.S.	Z	121,352	2,498 1,552 144 309	16	142	256	42	26,321	548	9,071	3,445	1,671	1,911 216 171	1,142 200 59 704 67	465
als	Other than N.H.S.	T	278	N	1	11	11	111	17	-	24	2	-	-11	-1111-	-
hospita	Other N.H	Σ	138	1111	Ī	11	11	111	9	-	2-	I	-		1111	-
Psychiatric hospitals	1.S.	T	9,329	39 7 24	ı	1,0	50	1 2	618	80	222	234	62	23 18 5	80 47 80 L	29
Psyc	N.H.S.	M	6,502	195 100 9 58	1	1	20	11-	504	18	204	55	51	20 4	644844	25
eaths		II.	257,773	1,991 854 190 331	1	134	380	56	46,069	613	18,585	17,593	2,952	2,389	3,824 689 621 2,093 141 280	1,313
Total deaths		M	269,878	4,142 2,620 190 627	24	180	381	1 89	52,324	1,249	19,160	6,704	2,853	2,791	2.032 539 1114 1,100 97	756
CD	ICD No.			001-138 001-008 010-019 020-029	030-039	040-049	080-096	110-117 120-138	140-239	140-148	150-159 160-165	170-181	190-199	200–205 210–229 230–239	240-289 240-245 250-254 260 270-277 280-289	290-299
	Cause of death		All causes	Infective and parasitic diseases Tuberculosis of respiratory system Tuberculosis, other forms Syphilis and its sequelee	Gonococcal infection and other venereal diseases	Infectious diseases commonly arising in the intestinal tract Other bacterial diseases	Spirochaetal diseases, except syphilis Diseases attributable to viruses	Appnus and other rekettsial diseases Malaria Other infective and parasitic diseases	Neoplasms			Malignant neoplasm of breast and genito-	Mailgnant neoplasm of other and unspecified sites	Neoplasms of lymphatic and naematopoietic tissues Benign neoplasm Neoplasm of unspecified nature	Allergic, endocrine system, metabolic, and nutritional diseases. Allergic disorders. Diseases of thyroid gland. Diseases of other endocrine glands. Avitaminoses, and other metabolic diseases	Diseases of the blood and blood-forming organs

Table CXXIII—continued

In other private houses	places	ц	r4=	2	1,600	1,548	=4	4,822 171 3,494 315 329 160 279	7.1	827 139 275 371 38	121 29 30 37
In other private hous	pla	M	e	60	634	576	% T E	7,467 6,561 1,25 6,561 1,81 1,53 2,14	37	803 97 228 404 69	35 35 20 13
eased own		IL	109 67 18	24	19,971	19,158	156 633 8 8 1 1 12	50,041 1,976 35,692 3,271 3,433 1,785 3,355	209	2,137 3,474 4,883 621	1,237 19 308 19 122 391 378
At deceased person's own	home	M	32	34	13,973	13,168	137 632 8	51,438 1,108 41,029 2,443 2,443 1,430 2,717	261	17,824 32 2,193 3,360 10,670 1,569	1,056 15 455 18 18 257 220
Other institutions		F	22 22 6		2,175	2,052	96	4,452 100 3,242 334 269 106 369	30	1,321 365 558 357 40	222 23 4
Ot		M	0,00=	1	1,401	1,293	818 21	2,808 	17	1,309 338 366 552 53	227772
	than L.S.	H	18	3	2,265	2,101	115	3,435 1 72 2,447 201 254 109 316	35	722 107 406 166 43	180 27 27 65 65 65
als and s for he sick	Other than N.H.S.	M	4	7	801	736	50	1,303 23 955 75 71 57 115	7	499 2203 203 41	130 17 17 130 30 30
Other hospitals and institutions for the care of the sick	r.s.	H	296 253 20	23	20,050	18,448	530 968 27 27 432 432	28,117 2,169 15,873 2,850 2,066 1,230 2,752	1,140	11,869 23 945 7,331 2,866 704	5,402 102 1,168 241 655 1,705 1,531
Ottl	N.H.S.	M	156 109 11	36	15,990	14,506	481 848 28 20 104	30,290 1,161 1,9,685 2,665 1,603 1,443 2,768	924	19,004 17 1,048 8,283 8,061 1,595	6,300 73 2,637 395 581 1,446 1,168
sit	than S.	H	0.00	-	26	47		90 10 10 114	4	37	4 - 6
hospitz	Other than N.H.S.	M	401	2	28	19	∞ -	24 43 1 7 1 3 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	123 1	0 100
Psychiatric hospitals	N.H.S.	H	174 147 9	18	1,067	668	146	4,545 3,386 1143 368 164 287	66	1,855 1,261 1,306 208 79	147 21 21 14 36 36
Psyc	Z	M	118 102 6	10	992	599	143	2,944 2,284 107 221 117 1142	38	1,295 162 754 301 78	128 40 50 20 20
leaths		L	644 519 54	71	47,184	44,253	2,005 35 36 36 57	95,526 63 4,589 64,224 7,120 6,719 3,555 7,368	1,888	27,796 62 3,964 13,387 8,858 1,525	7,159 1,576 1,576 2,276 2,047
Total deaths		M	364 254 23	87	33,593	30,897	1,809 1,809 2 2 26 138	96,306 2,482 72,700 5,644 4,656 3,269 6,208	1,284	40,756 3,898 13,203 20,193 3,405	7,748 3,232 430 705 1,814 1,470
ICD	o Z		300-326 300-309 310-318	320-326	330-398	330–334	340-345 350-357 360-369 370-379 380-389 390-398	400-468 400-402 410-416 420-422 430-434 440-443 450-456	460-468	470-527 470-475 480-483 490-493 500-502 510-527	530-587 530-539 540-545 550-553 560, 561 570-578 580-587
Cause of death			rotic, and per disorders	Disorders of character, behaviour, and intelligence	8	vascuar lesions anecung central nervous	Inflatinatory diseases of central nervous system Other diseases of central nervous system Diseases of nervoes and peripheral ganglia Inflatinatory diseases of eye Other diseases and conditions of eye Diseases of ear and matoid process	Diseases of the circulatory system Rhoumatic fever Chronic rhoumatic heart disease Arteriosclerotic and degenerative heart disease Other diseases of heart Hypertensive heart disease Other hypertensive disease		Diseases of the respiratory system Acute upper respiratory infections Influenza Pheumoria Broadchitis Other diseases of respiratory system	Diseases of the digestive system

2	63	669	97 0	12	10		42	36	26	155 2 153	1,302 4,705 2,22 4,44 1,130 1,305 1,
1	1		44	00	9	7	57	45	30	92 87	4,294 1,491 1,491 108 108 108 108 1,258 1,258 1,258 1,258
-	14	33	64 14 50	496	423	22	384	250	183	2,667	2,640 14 14 16 2 2 10 2 434 434 434 11,323 11,323
1	1		29	230	147	38	419	336	246	1,443	2,936 21 21 21 7 7 7 7 8 6 6 7 7 7 8 7 8 8 8 7 8 7 8 8 8 8
1	1	11111	∞ ∞	99	57	24	14	4	£=	527 4 523	4 2
1	1		4m-	15	11	22	10	3	-2	225 1 224	20 10 10 20
1	10	-111-1	w w	78	89	3.7	36	45	23	243	106 7
	1		2-3	13	7	-2	24	75	47	53	22,000
40	119	242 844 364 75 43 43	189 65 124	662	462	135	1,904	3,459	1,898	1,247	4,966 1,110 1,110 1,77 2,778 496 1 1 1 6 1 1 6 1 1 0 1 1 1 1 1 1 1 1 1
_	1		129 66 63	343	182	98	1,949	5,025	3,068	802 43 759	2,796 2,796 3,633 3,64 1,598 1
1	1			2	1	-1	2	}	11	∞ ∞	0 1
1	1		111	1	1	11	90	j	11	111	0
- Total	-	&= 4	11 2	15	9	36	26	13	6 7	247	285 207 41 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1	1		900	4	7	7	36	22	10	103	162 152 153 364 1 1 1 1 1 1 1 1 1
4	148	290 96 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2 82 90 192	1,331	1,027	206	2,408	3,807	2,140	5,094 65 5,029	9,379 1,607 1,607 1,118 2,2,091 142
	1		173 83 90	613	355	143	2,503	5,506	3,404 2,102	2,718 69 2,649	13,456 4,345 169 1169 1177 175 175 175 175 175 175 175 175 17
620-626	630-637	640-689 640-649 650-652 660 670-678 680-689	690-716 690-698 700-716	720-749	720-727	730-738 740-749	750-759	922-092	922-092	780-795 780-789 790-795	E800-E999 E800-E802 E830-E835 E830-E835 E860-E836 E800-E836 E900-E904 E910-E946 E910-E946 E910-E946 E910-E959 E910-E959 E910-E959 E910-E959 E910-E959
Diseases of breast, ovary, Fanopian tube and	Organs	Deliveries and complications of pregnancy, childbirth, and the puerperium Complications of pregnancy Abortion Delivery without mention of complication Delivery with specified complication Complication of the puerperium Complications of the puerperium	Diseases of the skin and cellular tissue Infections of skin and subcutaneous tissue Other diseases of skin and subcutaneous tissue	Diseases of the bones and organs of movement	fever in the different forms of the first of the fever in	E E	Congenital malformations	9	ō	Symptoms, senility, and ill-defined conditions Symptoms referable to systems or organs Senility and ill-defined diseases	Accidents, poisonings, and violence (external cause) Railway accidents Motor vehicle traffic accidents Motor vehicle traffic accidents Other road vehicle accidents Water transport accidents Water transport accidents Water transport accidents Accidental poisoning by solid and liquid aubstances Cocidental poisoning by gasses and vapours Accidental poisoning by gasses and vapours Accidental poisoning by gasses and vapours Complication due to non-therapeutic medical and surgical procedures Therapeutic misadventure and late complications of the procedures Late effects of injury and poisoning Suicide and self-inficted injury Complication due to non-therapeutic medical and surgical procedures Therapeutic misadventure and late complications of their persons (not in war) Injury resulting from operations of war
	be and 620-	genital 620- 630-	r female genital r fema	Figure 3.00 - 6.56	620-626 1 44 — — 1 40 — — 1 — — 1 —	Septimal G20-G56 1	620-626 1 44 —<	620-626 1 44 —<	620-656 1 44 —<	620-626 1 44 —<	620-636 1 44 —<

Medical certification of cause of death Proportion of bodies seen after death

Table CXXIV shows for 1959 and five earlier years the percentage of deaths which were investigated by a coroner or where the body was seen after death by the certifying practitioner, and also the percentage where the certifying medical practitioner did not see the body and no coroner's enquiry took place. The figures for 1953, 1954 and 1959 are based on a sample of one medical certificate in seven.

Both the proportion of bodies seen by certifying practitioners and the proportion of deaths investigated by the coroner continue to increase. The proportion seen after death by a certifying practitioner may be understated, because the statement by a certifying practitioner is made when he signs the medical certificate of cause of death and there may well be occasions when he sees the body subsequently.

Table CXXIV. Medical certification of cause of death: Proportion of bodies seen after death, 1928 to 1959, England and Wales

	1928	1933	1947	1953*	1954*	1959*
Seen after death Inquest or Coroner's P.M. without inquest	51 · 0	53 · 7	60.9	70 · 8	71 · 5	74.5
or other cases reviewed by coroners Cases certified by Medical Practitioners Not seen after death No statement	11·2 39·8 48·5 0·5	11·2 42·5 46·1 0·2	14·0 46·9 38·8 0·3	19·4 51·4 29·1 0·1	20·1 51·4 28·3 0·2	21·4 53·1 25·2 0·3
Total	100.0	100 · 0	100 · 0	100 · 0	100 · 0	100 · 0
Total deaths in year	460,389	496,465	517,615	503,529	501,896	527,651

^{*}Estimated from a sample of medical certificates.

Mortality analysis by method of certification

Table CXXV (page 208) shows the number of deaths in 1959 for 46 groups of causes analysed according to the basis of the diagnosis of the cause of death, whether by a certifying medical practitioner, coroner's certificate or uncertified. Of a total of 527,651 deaths, 80,156 were registered on the basis of a coroner's certificate after inquest or on the results of a post-mortem examination ordered by a coroner, without an inquest. In 70,416 of these deaths a post-mortem was held.

Of the 445,985 deaths registered on a certificate from a medical practitioner, post-mortem examinations were made in 42,627 cases. There were 1,510 uncertified deaths, i.e. deaths where no doctor could give a certificate, usually because no doctor was in attendance during the last illness and the coroner did not think it necessary to hold an inquest or order a post-mortem examina-

tion; 987 of such deaths were assigned to arteriosclerotic and degenerative heart disease. The percentage distribution in 1959 compared with that in 1954 was:

1959

1954

Coroner:				
Inquest, with post-mortem			3.1	3.3
" no ", ", …	400		1.8	1.8
Post-mortem without inquest	•••	•••	10.2	8.3
Certifying medical practitioner:				
After post-mortem	•••		8.1	9.1
Operation mentioned on certificate			1.8	2.1
Other examination mentioned			0.1	0.1
No examination mentioned		***	74.6	74.8
Uncertified			0.3	0.5

The only noteworthy variations are an increase in the proportion of deaths registered on a coroner's certificate after a post-mortem without inquest and a decrease in the proportion registered on diagnosis by a certifying medical practitioner after post-mortem.

For young children whose deaths were assigned to birth injuries, and post-natal asphyxia and atelectasis (ICD Nos. 760-762) the proportion certified after post-mortem was 53 per cent, and for those assigned to infections of the newborn (ICD Nos. 763-768) 66 per cent.

Table CXXV. Deaths by cause and sex, according to method of certification, 1959, England and Wales

	Uncertified		II.	620	7	1 1	1111	-1	01	4-	77		360
			Z	890	1 1 2			1	18	7	49	1	627 115 111 112
	o	oned	H	202,037	577 90 143 7	. wo.4	1 30	235	36,523	1,675	39,867	3,479	53,401 6,531 5,936 2,693
ner	No	mentioned	M	191,443	1,743	36	220	239	40,895	839	27,408	1,659	51,386 4,950 3,823 2,349
Certifying medical practitioner	m-	oned eath icate	H	192			1111	1	157	11	6	11	11
lical pi	Other exam-	mentioned on death certificate	M	198		111	1111	I	161	1	- 1	11	∞ -
ng med	ntion	sath cate	H	4,625	74-11	111	1111	-	3,380	51	10	46	8 8 4 7
ertifyir	Operation	on death certificate	M	4,863	34	111		60	2,780	31	12	22	77
Ö		ortem	H	18,840	132 70 65	446	101	110	3,978	254	1,649	514	2,368 319 268 219
	After	post-mortem	M	23,787	285 64 116 6	28	L 8	125	5,667	144	1,413	322	3,221 369 257 301
	- 5	out est	IL	21,456	118 23 120 1	23	4% -	99	1,204	103	2,594	22 526	7,946 223 495 629
	Post-	without inquest	M	32,440	420 29 147	33	111	69	1,927	71 26	1,857	23	16,773 265 535 569 569
ner		ost-	P4	4,010		111		00	0000	-2	12	18	£==4
Coroner	held No post- mortem		Z	5,730	33	111	1111	13	90	777	47	1 9	168
	Inquest held With post- mortem mor		Œ,	5,993	 N m = m		7	25	65	24	14	12	89
		With	M	10,527	100		1 11	25	245	111	110	36	2222
	eaths		A	257,773	854 190 331 1	677	495	439	45,334	2,093	44,253	4,589	64,224 7,120 6,719 3,555
	Total deaths		M	269,878	2,620 190 627 18	111	41 49 —	474	51,783	1,100	30,897	2,482	72,700 5,644 4,656 3,269
	ICD				001-008 010-019 020-029 040 045-048	050, 051 056 056 057	080 085 100–108 110–117	Rem.001-138	140–205 210–239	260 290–293	330–334	400-402	420 -422 430 -434 440 -443 444 -447
	Cause of death			All causes	Tuberculosis of respiratory system Tuberculosis, other forms Syphilis and its sequelae Typhoid fever Dysentery, all forms	Scarlet fever and streptococcal sore throat	Acute poliomyclitis Measles Typhus and other rickettsial diseases	and parasitic	Malignant neoplasms Benign and unspecified neoplasms	Anaemias	nervous system Non-meningococcal meningitis	Rheumatic fever Chronic rheumatic heart disease Arteriosclerofic and decenerative heart	disease Other diseases of heart Hypertension with heart disease Hypertension without mention of heart

- -	- -	-	6	1	5	31	i	6	1	1
-1-	N-NN	1	2	40	7	34	7	19	1	T
653 95 604	347	41	1,337	806	1,291	4,970	approx.	193	-	
1,198 158 446	332 1,481 2,061	1	1,239	1,309	1,622	2,624	-	103	1	25
1 2		-	3	11	1	9	1	1	1	1
113	7	1	-	11	1	16	1	-	1	1
126 44 195	97	5	56	-	Vessel.	144	-	17	1	1
351 63 208	44	1	61	11	3	410	wed	- 52	1	1
369	363	89	929	799	392	2,876	1	36	1	
911	262 160 318 484	1	754	1,322	492	2,608	1	25	-	1
273	197	103	3.12	119	37	2,837	-	112	4	
553 68 314	166 81 110 177	1	416	163	49	2,842	4	94	9	4
m 1/2 00	10-	15	4	4	1	111	558	2,502	699	28
13	101 10	1	4		1	111	1,498	2,238	1,174	45
30	2002	57	11	1-4	į	20 213	1,052	2,664	1,417	114
57 15 35	19 28 7 35	1	23	13	m	35	2,903	3,261	1,936	107
1,473	1,381 586 1,762	290	2,408	1,743	1,726	5,094	1,612	5,533	2,091	143
3,090	951 617 1,923 3,505	1	2,503	2,818	2,177	2,718	4,414	5,745	3,116	181
540, 541 550–553 560, 561, 570	543, 571, 572 581 590-594 610	640–689	750-759	760–762	922-692	780–795 Rem.140–795	E810-E835	{ E800-E802 } { E840-E962 }	{E970-E979}	{ E964, E965, } { E980-E999 }
: : :	col-	birth,	:	and	ancy,	hosis.	:	:	:	:
Ulcer of stomach and duodenum Appendicitis Intestinal obstruction and hernia	Gastritis, duodenitis, enteritis, and siz, except diarrhoea of the new Cirrhosis of liver	Complications of pregnancy, childb	Congenital malformations	Birth injuries, postnatal asphyxia atelectasis Infections of the newborn	Other diseases peculiar to early infa and immaturity unqualified	Senility without mention of psych ill-defined and unknown causes All other diseases	Motor vehicle accidents	All other accidents	Suicide and self-inflicted injury	Homicide and operations of war
	540, 541 3,090 1,473 57 6 16 3 553 273 911 409 351 126 3 1,198 550-553 430 271 1570 35 30 13 8 314 362 396 369 208 195 — 1,446 560, 561, 570 1,413 1,570 35 30 13 8 314 362 396 369 208 195 — 1 446	omach and duodenium 560, 561, 570 1,413 1,520 1,413 1,570 35 1,138 1,108 2,113 1,108 2,113 1,108 2,113 1,109 2	omach and duodenum \$40, \$41	omach and duodenum \$40, \$41	540, 541 3090 1,473 57 6 16 3 553 273 911 409 351 126 3 1,198 550, 553, 553 360, 561, 570 1,413 1,570 35 36 353 273 191 409 351 126 36 449 37 1,198 560, 561, 570 1,413 1,570 35 20 10 7 166 197 262 363 49 97 -1 1446 590, 594 1,923 1,762 37 5 5 17 -1 66 197 267 484 -2 1,481 1 590, 594 1,923 1,762 37 - 13 - 177 - 484 - - 2,061 - 1,481 1 640, 689 - 2,503 2,408 23 11 4 4 416 312 754 676 61 56	540, 541 3090 1,473 57 6 16 3 553 273 911 409 351 126 351 128 353 1198 351 126 351 126 351 126 353 273 911 409 351 126 351 352 363<	omach and duodenum \$40, \$41	540, 541 3090 1,473 57 6 16 35 273 911 409 351 126 351 126 351 126 351 126 351 126 351 126 351 126 352 353 273 312 363	540, 541 3090 1,473 57 6 16 3 573 273 911 409 351 126 34 426 563 683 445 - 1,188 653 694 - 1 446 604 - 1 446 604 - 1 446 604 - 1 446 604 - 1 446 604 - 1 446 604 - 1 446 604 - 1 446 604 - 1 446 706 - 1 - 1 446 706 - 1 - 1 - 1 446 604 - 1 -	540, 541 3090 1,473 57 61 3 573 273 911 409 551 126 34 409 551 126 34 409 551 126 34 44 550 353 273 911 409 351 126 363 363 363 44 97 — 1486 604 1 560, 553, 570 1,413 1,570 35 2 16 17 166 197 222 363 49 97 — 1446 604 1 580, 594 1,023 1,762 36 16 177 — 177 — 484 267 71 3 1,446 706 2 206 — 484 416 117 — 484 46 116 312 75 — 484 46 416 312 75 — 484 416 312 75 66 15 11

Live births, stillbirths and stillbirth rates by age and parity of mother and place of confinement

In England and Wales in 1959 there were 748,501 live births and 15,901 stillbirths. The tables below give details of the distribution of these births by place of confinement, age and parity of mother.

A set of tables is available for reference at the General Register Office showing numbers of live and still births with a breakdown as in Tables CXXVII and CXXVIII for individual county boroughs and administrative counties within England and Wales. A copy of these tables, or of a table for a particular area, can also be obtained from the General Register Office on payment.

Table CXXVI. Births by place of confinement, 1959, England and Wales Note. Institutions described as "Other hospital" are mainly maternity homes

Place of confinement	Live births	Stillbirths	Total births	Total births per cent by place of confinement*	Stillbirth rate per 1,000 total births*
NITTO In-mit-1	451 612	12 690	464 202	60.7 (60.5)	27 · 3 (28 · 1)
N.H.S. hospital	451,613	12,680	464,293	60.7 (60.5)	27 · 3 (28 · 1)
Other hospital	26,086	298	26,384	3.5 (3.5)	11 · 3 (11 · 3)
At home	253,716	2,698	256,414	33 · 5 (33 · 7)	10.5 (11.3)
Other	17,086	225	17,311	2·3 (2·3)	13.0 (14.7)
Total	748,501	15,901	764,402	100 · 0	20 · 8 (21 · 5)

^{*}The figures in brackets are the corresponding figures for 1958.

Table CXXVII. Live births by age and parity* of mother and place of confinement, 1959, England and Wales Note. Institutions described as "Other hospital" are mainly maternity homes

		Other	17,086	10,086	6,385	588	27
	Total	əmon 1A	253,716	72,230	145,994	34,907	585
	To	Tehron Terrique	26,086	9,184	13,924	2,951	27
		S.H.N. Isiiqsod	451,613	183,102	210,069	57,688	754
		Other	323	12	216	95	
	4 and over	əmon 1A	29,431	746	17,366	11,245	74
	4 an	Other hospital	915	33	477	403	2
ther		.S.H.N Istiqsod	26,899	557	13,008	13,275	59
Parity of mother	,	Other	8,248	3,723	4,149	366	10
Parii	23	At home	177,535	44,776	111,395	21,012	352
	1–3	Other hospital	13,595	2,868	8,634	2,084	6
		.S.H.N lestiqsod	181,896 13,595	44,877	106,092	30,658	269
		Other	8,515	6,351	2,020	127	17
		əmod 1A	46,750	26,708	17,233	2,650	159
	0	Tahio Tariqsod	11,576	6,283	4,813	464	16
		.2.H.N Istiqsod	242,818	137,668	696,06	13,755	426
	Age-	All ages	Under 25	25	35 and over	Not stated	

*Parity in this instance means the number of previous liveborn children.

Table CXXVIII. Stillbirths by age and parity* of mother and place of confinement, 1959, England and Wales

Note. Institutions described as "Other hospital" are mainly maternity homes

		Other	225	92	92	17	40
	ial	əmon 1A	2,698	629	1,354	199	48
	Total	Other hospital	298	93	153	51	1
		.S.H.N latiqsod	12,680	3,903	5,999	2,690	88
		Other	11	1	7	4	1
	over	emod 1A	448	4	202	240	2
	4 and over	Other hospital	10	1	3	7	1
other		.2.H.N Istiqsod	1,292	14	539	731	00
Parity of mother		Other	2	20	38	9	1
Pari		amon 1A	1,471	252	870	345	4
	1-3	rahtO Istiqsod	146	26	87	32	-
		.S.H.N Istiqsod	5,163	892	2,926	1,331	14
		Other	150	72	31	7	40
		əmod 1A	977	373	282	82	42
	0	TahtO Istiqsod	142	19	63	12	1
		.S.H.N latiqsod	6,225	2,997	2,534	628	99
	Age-			Under 25	25	35 and over	Not stated

*Parity in this instance means the number of previous liveborn children.

Table CXXIX. Percentage distribution of births for each place of confinement within each age and parity* group, 1959, England and Wales

Note. Institutions described as "Other hospital" are mainly maternity homes

and the second s		Other	7	4	2	1	4
	tal	əmod 1A	- 34	26	38	36	40
	Total	TehtO Istiqsod	6	6	4	3	2
		S.H.N. Istiqsod	61	19	99	09	54
		Other	peri	I	part .	0	
	4 and over	əmon 1A	50	55	55	4	53
	4 and	TehtO Istiqsod	7	7	2	2	I
other	other	.S.H.N hstiqsod	47	42	42	54	46
Parity of mother		Other	2	4	2	-	2
Pari	Parit	əmon 1A	46	46	48	38	54
	1-3	Other hospital	4	8	4	4	I
		.S.H.N Istiqsod	48	47	46	57	43
		Other	60	4	2	-	7
		emod 1A	15	15	15	15	26
	0	Other hospital	4	4	4	3	2
		S.H.N. Istiqeod	78	77	79	81	99
	Age-			Under 25	25	35 and over	Not stated

*Parity in this instance means the number of previous liveborn children.

Table CXXX. Stillbirth rates per 1,000 total births, by age and parity* of mother and place of confinement, 1959, England and Wales

Note. Institutions described as "Other hospital" are mainly maternity homes

	4 and over	Despitable of the property of	11 15 33 27 11 11 13	- 5 - 21 10 9 9	6 11 31 28 11 9 12	17 21 40 45 17 19 28	- 26 - 105 36 76 597
10	4 and o	hospital ————————————————————————————————————	46 11	25 -	40 6	52 17	- <i>611</i>
Parity of mother		At home Other N.H.S.	00	6 5	6 8	16 16	11 - 11
	1–3	Other hospital	11	6	10	15	001
		.2.H.N Istiqsod	78	19	5 27	2 42	49
		omod 1A	16 17	14 11	16 15	30 52	209 702
	0	Tether latiqsod	12	11	13	25	1
		.2.H.N Istiqsod	25	21	27	44	134
	Age-			Under 25	52	35 and over	Not stated

*Parity in this instance means the number of previous liveborn children.

Table CXXXI. Stillbirth rates per 1,000 total births, by parity* of mother and place of confinement, 1959, England and Wales, standard regions and Wales

Note. Institutions described as "Other hospital" are mainly maternity homes

		Total	21	221 221 231 247 277 278 277
		Other	13	12 10 10 10 10 10 10 10 10 22 24 25
	Total	əmod 1A	=	13 10 11 11 10 88 99 11 17
		Other hospital	=======================================	16 10 10 10 11 11 11 11 11
		S.H.N. Istiqsod	27	222 2283300 232 22283300 232 22283300
		Total	30	30 32 32 33 33 33 34 34 45 30 30 30 30 30 30 30 30 30 30 30 30 30
	ver	Other	33	23 873 100 143 77
	4 and over	At home	15	30 30 30 30 30 30 30 30 30 30 30 30 30 3
er	4	Other hospital	11	29 21 21 16 17 17 17 17 17 17 17 17 17 17 17 17 17
Parity of mother		.S.H.N lasiqsod	46	10044534888 4450 10044534888 4450 1004454888 4450
arity o		Total	200	10 10 10 10 10 10 10 10 10 10 10 10 10 1
P	1–3	Other	00	127 667729
		əmod 1A	00	0122 768799879
		Other hospital	=	50 80 51 1 6 4 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		.2.H.N Isiiqsod	28	22 22 33 3 3 2 8 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
		Total	23	25
		Other	17	36.30 94.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
	0	əmod 1A	16	202 113 113 113 113 113 113 113 113 113
		Other hospital	12	100 110 110 110 110 110 110 110 110 110
		S.H.N. Isiiqsod	25	2333 252338 2333 25238 2833 25238 2833 2538 2538 2538 2538 2538 2538 2538 2538
	Area		ENGLAND AND WALES	Standard regions: Northern East and West Ridings North Western North Midland Eastern London and South Eastern South Western South Western Wales (including Monmouthshire) Wales I (South East) Wales I (South East) Wales I (South East)
1		2	15	Ĭ.

*Parity in this instance means the number of previous liveborn children.

ADVISORY COMMITTEE ON MEDICAL NOMENCLATURE AND STATISTICS

Report (dated June 1960) on the work of the Committee for 1957 to 1959

Introductory

This, the fifth report on the Committee's work, covers a period of three years. The Committee was first appointed in November 1948. A list of members is given at the end of the report.

During the period covered by this report the Committee met three times. An indication of some of the matters dealt with is given in the following paragraphs under the three main headings of National, International and Work of Sub-committees.

National

Medical certification of cause of death. The Committee considered the results of a small enquiry comparing diagnoses on medical certificates of cause of death by clinicians before post-mortem and by pathologists after post-mortem. The enquiry revealed that in about one-fifth of the cases a new finding was given by the pathologist as a result of the post-mortem. The Committee recommended that a larger enquiry should be held, and this was carried out with the co-operation of about 100 hospitals over a period of six months, during 1959. The results of this further enquiry are now being analysed.

The Committee also recommended that efforts should be made to get further information in cases where post-mortem findings became available after completion of the death certificate. It is proposed to do this by providing for a statement by the certifying practitioner on the death certificate that post-mortem information may be available later. An enquiry can then be sent to the certifier.

Mental health statistics. The Committee recommended that more publicity should be given to these statistics. Papers based on statistics from the scheme have since been published in the Monthly Bulletin of the Ministry of Health (1958), the Journal of Mental Science (1959), and the Eugenics Review (1960). Papers have also been presented (and subsequently published) to the Royal Society of Medicine and the Second International Congress for Psychiatry in Zurich. Lectures and information have also been given to the hospital staffs.

Cancer registration. The Committee urged that every effort should be made to extend the scheme to cover completely all areas of the country. Discussions between the Ministry of Health and the General Register Office are being held to consider the best means of furthering this aim. Steady progress has been made in establishing regional cancer registries and it is probable that over 70 per cent of new cancer cases are now being registered in the scheme.

International

Histological classification of tumours. The Committee considered the statistical code prepared by the International Union Against Cancer to assist in carrying out work on the compilation and analysis of cancer statistics, and found it unsatisfactory for that purpose. The Registrar General informed the World Health Organization of the position,

Classification of heat illness. The Committee maintained contact with what was being done in this field with a view to considering any possible changes which might be proposed for the Eighth Revision of the International Classification of Diseases.

Morbidity statistics. The Committee took note of the resolution on the importance of morbidity statistics carried at the Eleventh World Health Assembly and considered some of the difficulties in the way of reliable international comparisons in this field.

Work of Sub-committees

The Statistics Sub-committee met five times during the period and considered a number of problems affecting the presentation of mortality statistics. In particular the Sub-committee recommended the abandonment of the Comparative Mortality Index and the substitution of some other method of standardisation. The Committee endorsed these recommendations and as a result the Registrar General introduced a number of changes into the Medical Tables Volume of the Statistical Review for 1958.

The Cardiovascular Sub-committee met eight times during the period. After preliminary discussion of the difficulties in the present Classification of this group of diseases in the International Classification, members of the Sub-committee have proposed three alternative classifications which are being considered in detail.

Members of the Committee

Sir Ernest Rock Carling, LL.D., M.B., B.S., F.R.C.S., F.R.C.P., F.F.R. (Chairman)

Professor W. Melville Arnott, M.D., F.R.C.P.

H. J. B. Atkins, D.M., M.Ch., F.R.C.S. (from 18th November 1958)

Professor A. L. Banks, M.D., F.R.C.P., D.P.H.

G. O. Barber, O.B.E., M.A., M.B., B.Chir., M.R.C.S. (from 18th November 1958)

E. W. Bedford Turner, M.R.C.S., L.C.R.P. (until 21st August 1958)

Sir Allen Daley, M.D., F.R.C.P., D.P.H.

J. O. F. Davies, M.D., B.S., M.R.C.S., L.R.C.P., D.P.H. (from 18th November 1958)

Surgeon Captain F. P. Ellis, O.B.E., M.D., M.R.C.P., R.N. (from 28th March

Miss Joan M. Faulkner, M.B., D.P.H.

Sir Ernest Finch, M.D., M.S., F.R.C.S. (until 28th August 1958)

J. Fry, M.D., F.R.C.S., L.R.C.P. (from 18th November 1958)

Professor R. B. Green, M.A., M.B., F.R.C.S., D.C.L. (from 18th November 1958)

Members of the Committee—continued

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Surgeon Captain J. M. Holford, O.B.E., M.B., F.R.C.P., R.N. (until 28th March 1958)

T. Lloyd Hughes, M.D., D.P.H. (until 20th August 1958)

A. E. Joll (until 18th September 1958)

W. N. Leak, M.A., M.D. (from 18th November 1958)

Professor Sir Aubrey Lewis, M.D., F.R.C.P.

W. J. Littlewood (from 18th September 1958)

W. P. D. Logan, M.D., Ph.D., D.P.H.

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R. M. Vick, O.B.E., M.Chir., F.R.C.S.

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R. D. Teare, M.D., M.R.C.P.

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Miss Vera Norris, M.B., Ph.D. (died 16th September 1957)

Mrs. Lilli Stein, Ph.D.

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General Register
G. Rhodes (from June 1957)
Office

GREAT BRITAIN AND IRELAND

Vital statistics

Table A1 of Part II shows the population, with figures for the constituent countries of Great Britain at each census beginning with that of 1801 and of Great Britain and Ireland since the first census was taken in Ireland in 1821. This table also gives the population estimates for each mid-year from 1921. Figures for Northern Ireland and the Irish Republic relate throughout to the areas now so named.

Table W of Part II gives current *home* population data with marriage, live birth, death and infant mortality rates. These are repeated in Table CXXXII below where similar rates for earlier years are added for comparison.

Table CXXXII. Vital statistics: 1938 and 1946 to 1959, Great Britain and Ireland

	Great Britain and Ireland	England	Wales	Scotland	Northern Ireland	Irish Republic(¹)					
I	Estimated mid-year home population (in thousands)										
1959 Males Females Persons	26,501 28,331 54,832	20,599 22,164 42,763	1,286 1,337 2,623	2,495 2,697 5,192	686 722 1,408	1,435 1,411 2,846					
		Marr	iages(²)								
1959 Persons marrying per 1,000 living	405,439	320,928	19,198	40,448	9,610	15,255					
1938 1946–50 1951–55 1956 1957 1958 1959	16·8 17·1 15·6 15·6 15·2 14·9 14·8	17·6 17·7 15·9 15·8 15·5 15·1 15·0	16·2 17·4 15·7 15·6 15·1 14·7 14·6	15·5 16·9 16·3 17·1 16·6 15·9 15·6	13 · 4 13 · 9 13 · 5 13 · 4 13 · 4 13 · 2 13 · 7	10·1 11·0 10·8 11·6 10·0 10·6 10·7					
		Live b	irths(²)(³)								
1959 Per 1,000 living	938,749	706,239	42,262	99,251	30,809	60,188					
1938 1946–50 1951–55 1956 1957 1958 1959	15·7 18·5 16·0 16·4 16·8 17·1 17·1	15·1 18·0 15·3 15·7 16·1 16·4 16·5	15·3 17·9 15·7 15·7 15·9 16·2 16·1	17·7 19·8 17·8 18·5 19·0 19·2 19·1	20·0 22·0 20·8 21·1 21·5 21·6 21·9	19 · 4 22 · 2 21 · 3 21 · 0 21 · 2 20 · 9 21 · 1					

	Great Britain and Ireland	England	Wales	Scotland	Northern Ireland	Irish Republic(1)
		Dea	aths(4)			
1959	640,358	495,517	32,134	63,061	15,403	34,243
Per 1,000 living 1931–38(°) 1946–50 1951–55 1956 1957 1958 1959	12·4 11·9 11·8 11·7 11·5 11·7	12·0 11·7 11·6 11·6 11·4 11·6	12·9 12·6 12·7 12·4 12·5 12·5	13·3 12·5 12·1 12·0 11·9 12·0 12·1	14·4 11·9 11·3 10·6 10·9 10·8	14·2 13·3 12·5 11·7 11·9 12·0 12·0
Infa	ant mortality	(deaths of in	nfants under	one year of	age)(6)	
1959 Per 1,000 live births	22,247	15,516	1,113	2,816	875	1,927
1938	55 39 29 25 25 24 24	53 36 27 23 23 22 22	57 42 33 29 28 27 26	70 47 33 29 29 28 28	75 48 37 29 29 28 28	67 57 40 36 33 35 32

- (1) The Irish Republic rates are based on home population throughout the table.
- (2) The marriage and live birth rates for 1938 and from 1951 are based on *home* populations, but the 1946-50 aggregates (except for the Irish Republic) are based on *total* populations.
- (3) England and Wales: occurrences. Remainder: registrations.
- (*) The death rates are based on total deaths and *home* populations, except that (apart from the Irish Republic) the 1946-49 element in the 1946-50 aggregates is based on civilian deaths and *civilian* populations.
- (5) Here the 1931-38 aggregate is given, since crude death rates in the year 1938 were rather lower than in adjacent years.
- (e) England and Wales: for 1957 onwards based on deaths per thousand occurrences, for earlier years based on deaths per thousand related live births. Remainder: based on deaths per thousand births registered.

Population. The home population of Great Britain and Ireland at mid-1959 was estimated to be 54,832,000, an increase of 3·1 per cent on the 1951 Census population of 53,186,000. But this increase in the two islands as a whole was not uniform throughout the constituent parts. These showed population increases of: United Kingdom, 3·5 per cent; England and Wales, 3·7 per cent (England, 3·9 per cent; Wales, 0·92 per cent); Scotland, 1·9 per cent; Northern Ireland, 2·7 per cent. The population of the Irish Republic, however, declined in the period to 96·1 per cent of its 1951 Census figure.

Marriage rates. The fall in the marriage rate for Great Britain and Ireland continued in 1959, when it was 14.8 per thousand compared with 14.9 in 1958 and 15.2 in 1957. But while the marriage rate for Scotland remained significantly higher and that for the Irish Republic significantly lower than the rate for Great Britain and Ireland combined, Northern Ireland and the Irish Republic were the only two of the five constituent countries where the rate did not fall.

Birth rates. The live birth rate in 1958 (17·1 per thousand) was maintained in 1959 for Great Britain and Ireland as a whole. Moreover, the rates in the individual countries differed only slightly in each of the two years. The rates in England and Wales remained as always significantly lower than those in Scotland and Ireland.

Infant mortality rates. In 1958 Great Britain and Ireland together had achieved a new low level in an infant mortality rate of only 24 deaths per thousand live births. This reflected a slight fall from the 1957 rate in each constituent country except the Irish Republic, where the rate had risen from 33 to 35 deaths per thousand live births. In 1959 the infant mortality rate for the two islands together was sustained at the 1958 level of 24; but the rate for the Irish Republic improved from 35 to 32 and that for Wales from 27 to 26.

Cause of death. Table 7 of Part I gives a complete analysis for England and Wales of deaths by cause and sex at all ages for each year from 1949 to 1959. Appendix A of Part I includes death rates per million population (by sex) both in toto and by selected causes for England and Wales, for Scotland and for Northern Ireland separately in 1959. The selection covers all the principal types of cause and also considerable subdivision of these. In Table CXXXIII some of this information is repeated, with the addition of relevant data for the Irish Republic. The number of deaths from all causes and the death rates per million living are given (by sex) for each constituent country in 1959, followed by similar information for eleven main types of cause. A separate set of figures in the case of deaths from malignant neoplasms is added for those of the trachea, bronchus and lung. The extent to which this table covers the main types of cause of death is indicated by the fact that for England and Wales the types listed accounted for 76 per cent of deaths of males and 74 per cent of those of females in 1959.

Table CXXXIII. Deaths and death rates by sex from certain causes, 1959, England and Wales, Scotland, Northern Ireland and Irish Republic

	_		Deaths	SI			Death rates per million living	nillion living	American Control of the Control of t
Cause of death (and ICD No.)	"	England and Wales	Scotland	Northern Ireland	Irish Republic	England and Wales	Scotland	Northern Ireland	Irish Republic
All causes {F	EM E	269,878 257,773	32,454	7,979	18,603 15,640	12,332	13,010	11,636	12,964
Tuberculosis of respiratory system [F	ZH.	2,620	344	37	284 167	120	138	124	198 118
Tuberculosis, other forms [I	MH.	190	35	12	40 26	€ ∞	14 10	18	28
Malignant neoplasms [1]	Σ¤	51,783	5,878 5,154	1,230	2,617	2,366	2,356 1,911	1,794	1,824
Malignant neoplasm of trachea, bronchus and lung [No. 162, 163]	MH	18,181 2,882	1,958	278 68	429 98	831 123	785 138	405	299
Vascular lesions affecting central nervous system	ZH.	30,897 44,253	4,049 5,813	878 1,208	1,757 2,033	1,412	1,623 2,155	1,280	1,224
Arteriosclerotic heart disease, including coronary [I disease (420) [I	E.E.	52,193 32,729	6,641	1,711	2,504	2,385	2 662 1,476	2,495	1,745
Other diseases of heart (421, 422, 430–434) [1]	F	26,151 38,615	3,455	961	3, 426 3,168	1,195	1,385	1,401	2,387
Hypertensive discase (440–447) [1	MH	7,925	726	220	561	362	291 354	321 332	332
Bronchitis (500–502) [1]	N. W.	20,193	1,765	370 198	735	923	708	540 274	512 281
Nephritis and nephrosis (590–594) [1	ZH,	1,923	205	78	230	7000	82 76	114	160
Motor vehicle accidents (E810–E835)	MH.	4,414	447	129	196	202	179	188	137
Other accidents (E800–E802, E840–E962) {	(F)	5,745	1,039	171	380	263	275	249	265
	1								

INTERNATIONAL CO-OPERATION IN POPULATION AND HEALTH STATISTICS

United Nations

Population Commission

The tenth session of the Population Commission was held in Geneva from the 9th to the 20th February 1959. The United Kingdom was represented by Mr. B. Benjamin of the General Register Office. Mr. J. Mertens de Wilmars (Belgium) was elected to the Chair with Mr. T. V. Ryabushkin (USSR) Vice-Chairman and Mr. Kingsley Davis (United States) Rapporteur. Representatives of all fifteen member countries were present at the session, which was also attended by representatives of FAO, ILO, Unesco and WHO and of seventeen non-governmental organizations associated with the United Nations.

The dominant theme of the Report¹—that the United Nations, the specialized agencies and governments need to know more about the interplay of demographic characteristics with economic and social factors—flowed naturally from the emphasis put at the beginning of it on 'the fact that the earth's population is growing more rapidly than ever in the past'. Calculations prepared by the Secretariat for the consideration of the Commission showed that in the twelve months ending in December 1960 the earth's population was expected to increase by a hundred million. That this growth was greater in the less industrial countries had special implications for the United Nations with their pledge to make the needs of those countries a first charge on available resources. In the Report the Commission set out the salient figures of world population as it was then and what it might be in forty years from that time if current trends, interpreted in the light of moderate assumptions of changes in birth and death rates, were not disturbed by some unforeseen development. In drawing the attention of the Economic and Social Council to these figures, the Commission agreed that this rapid growth posed for governments questions that were both serious and urgent even though there was some difference of opinion about long-term prospects.

On the basis that the important thing for the United Nations to do was to maintain a current supply of the kind of information required by governments in order to get population questions into proper perspective when formulating their policies for economic and social development, the Commission considered how this might best be achieved. It was essential to keep a constant watch on trends in population growth throughout the world. To this end there was a continuing need for regional demographic surveys (in association with regional commissions), for estimates and projections of population size and structure, for studies of internal migration with special reference to industrialization and urbanization in under-developed countries and to demographic pilot studies in selected agrarian countries. The Commission did not overlook the fact that the effectiveness of these measures would be hampered to the extent that adequate data were still lacking for large areas of the world. Great progress had been made, but there was much to be done with the aid of experts assigned

to governments under technical assistance programmes, regional centres for demographic training and research, seminars and technical working groups on the appraisal and use of census results and manuals and other publications issued by United Nations with a view to improving the scale and quality of population and related statistics.

The Commission drew particular attention to the shortage of people qualified to staff training centres and to be assigned to governments as advisers on population statistics and questions.

Two draft resolutions were proposed by the Commission for adoption by the Economic and Social Council. The first was on demographic pilot studies. Technical opinion in the Commission had considerable confidence in these studies as a means of acquiring information about the ways in which population changes and economic and social developments are interwoven in contemporary settings. The studies serve an important local purpose as well as a longer term international one. They are made in collaboration with governments and it is governments who gather the first fruits. A sample survey of private households in the Philippines, intended to furnish data for one of these studies, provided the government with information on such things as fertility, migration, levels of education, family income and expenditure, the size and composition of the economically active population, the extent of unemployment and underemployment, internal migration and future population and labour force prospects.

The other draft resolution dealt with the demographic aspects of urbanization and industrialization, with special reference to the study of internal migration. This resolution was aimed at one of the problems besetting the less developed countries, namely, the movement from rural to urban areas at a time when agriculture needed to be intensified to match the demands of expanding populations for more food. The problem illustrates the kind of dilemma that can result from an ill-planned development policy which, ignoring the demographic situation, draws labour to the towns before the introduction of modern methods makes farming less dependent on sheer numbers.

Commission on the Status of Women

The thirteenth session of the Commission was held at United Nations headquarters from the 9th to the 27th March. The United Kingdom was represented by Miss Ruth Tomlinson, with Mr. P. W. J. Buxton (United Kingdom Mission to United Nations) and Mr. A. C. Dugdale (Foreign Office) as alternates.

Arising out of earlier discussions on the status of women in private law, the Commission recommended² that the Economic and Social Council should request the Secretary-General to draft a convention on age of marriage, free consent and registration of marriages, with a view to prescribing standards on these matters which would give effect to the provisions of the Universal Declaration of Human Rights. A resolution previously recommended by the Commission at its twelfth session³ had been modified by the Economic and Social Council which had requested the Secretary-General to prepare a 'recommendation' instead of a draft convention.⁴ It was the opinion of the Commission that a mere recommendation would be inadequate and the Economic and Social Council was asked to consider the matter again.² In the event the Council adopted the following resolution⁵:

The Economic and Social Council,

Recalling its resolution 680 B (XXVI) of 10 July 1958 concerning a minimum age of marriage, the requirement of the free consent of both parties to the marriage, and the compulsory registration of marriages,

- 1. Considers that it may be appropriate to prescribe desirable standards in these fields by means of international instruments prepared under the auspices of the United Nations;
- 2. Requests the Secretary-General to prepare for the fourteenth session of the Commission on the Status of Women a draft convention and a draft recommendation dealing with the three questions referred to above, including provisions for regular reporting by the Governments of Member States.

European Working Group on Censuses of Population and Housing

A Group of Rapporteurs on Locality Statistics and Urban-Rural Classification met in Prague from the 8th to the 13th May. Mr. Benjamin was elected Chairman by the Group, whose other members came from Czechoslovakia, the Federal Republic of Germany, France, the Netherlands and Yugoslavia.⁶

The function of the Group was to consider the purposes of statistics for local areas in relation to different types of locality and with reference to the need for maintaining consistency with other census statistics. In making a first essay towards a classification of local areas by function and types and in drafting a tabulation scheme, the Group was guided by answers received from twenty-one European countries in reply to a questionnaire circulated by the Secretariat.

After examining the purposes of classifying population by urban and rural groups, the *Rapporteurs* considered the criteria on which a classification should be based and came to the conclusion that a two-fold distinction between urban areas and rural areas was a less satisfactory basis in present day conditions than the application of criteria which included size of population, density of housing, proportion of population engaged in agriculture or in manufacturing and service industries, use of common transport, education, postal and other services and the existence of a common cultural focus. Specific proposals were remitted to the Conference of European Statisticians.

Conference of European Statisticians

The United Kingdom was represented by Sir Harry Campion and Mr. J. W. S. Walton of the Central Statistical Office at the seventh plenary session, held in Geneva from the 8th to the 12th June.

The Conference approved? the European Programme for National Population Censuses⁸ and the European Programme for National Housing Censuses⁹ which were submitted by the Working Group on Censuses of Population and Housing as regional adaptations of the *Principles and Recommendations for National Population Censuses* and *General Principles for a Housing Census* which had already been published by the United Nations for international use.

The Conference invited countries taking censuses of population to consider arranging, where possible, individual or collective visits of experts to study methods used, by participating in the work of taking the census or otherwise,

and agreed to continue exchange of information on plans for the forthcoming censuses of population by means of the preparation of national reports.

The Conference also took note of the Report⁶ by the Group of Rapporteurs on Locality Statistics and Urban-Rural Classification and agreed that the Report should be issued as an annex to the final version of the European Programme for National Population Censuses for the guidance of countries which wanted to adopt more precise and detailed recommendations than those contained in the European Programme.

Economic and Social Council

The Council met twice during the year: the twenty-seventh session was at Mexico City from the 11th to the 24th April, the twenty-eighth session in Geneva from the 30th June to the 31st July.

At the first of these sessions the Report of the Population Commission, to which reference has already been made, was well received and the Council adopted the two resolutions¹⁰ proposed by the Commission, the one on demographic pilot studies, the other on the demographic aspects of urbanization and industrialization with special reference to the study of internal migration.

It was at the twenty-eighth session that, as already noted, the Council modified the Social Commission's suggestion for a draft convention on age of marriage, free consent and registration of marriage.⁵

Seminars on appraisal and use of census results

In pursuance of a recommendation made earlier in the year by the Population Commission¹ the Secretary-General arranged a *Seminar on the evaluation and utilization of population census data in Latin America* held at Santiago, Chile, from the 30th November to the 18th December.¹¹

The Seminar was able to draw on experience wider than that provided by those who actually conducted it because, in addition to papers prepared by teachers and pupils, there were others by experts in different parts of the world (for example, Mr. Benjamin contributed a paper on demographic indicators of levels of living).

World Health Organization

World Health Assembly

Sir John Charles, leader of the United Kingdom delegation, was elected President of the twelfth World Health Assembly in Geneva from the 12th to the 29th May.

The Assembly considered a Report by the Director-General on proposals for intensifying WHO's medical research programme and approved¹² in principle the plan of research proposed for the initial year 1960. The Assembly also decided to set up a Special Account, intended to attract voluntary contributions, to be used to supplement provision made for medical research in the regular budget. These decisions were taken after consideration of a report¹³ (first presented to the Executive Board) in which the Director-General specified WHO's role as being to stimulate and initiate new research and to promote, organize and co-ordinate existing research by (a) supporting the expansion of work on special world health problems (as exemplified by current and

contemplated WHO programmes on special diseases) and (b) encourage and co-ordinate the development of medical research generally, particularly through the support of individual research work and through the advance training of research workers primarily in areas where medical research is in the early phases of development. The report outlined in detail the ways in which those objectives could be implemented and indicated fields in which international co-ordination and assistance was needed.

Executive Board

At the first of the two meetings of the Executive Board during the year, the twenty-third session held in Geneva from the 20th January to the 3rd February, the Board took note of the Report of the sixth session of the Expert Committee on Heath Statistics and approved its publication. Details of the Report were given in the 1958 Commentary.¹⁴

At the twenty-fourth session, held in Geneva in June, the Executive Board received the first *Report of the Expert Committee on Cancer*¹⁵ which had as its main subject the histopathology of lung tumours.

Regional Committee for Europe

It was noted in the Report¹⁶ of the Regional Committee, which met in Bucharest from the 8th to the 11th September, that increased attention had been given to health statistics, 'a subject relatively little developed in many countries of the Region', and that a medical officer for statistics and epidemiology was to be appointed from the beginning of 1960 to assist member countries and to develop work on health statistics within the Regional Office, particularly with regard to the statistical evaluation of regional activities.

The Regional Committee also approved the programme and budget proposals for 1961 which included provision for a technical conference on vital statistics. The Conference is intended to provide health administrators and statisticians with an opportunity to consider the future development of vital statistics within the Region.

Study Group on Epidemiology of Cancer of the Lung

Dr. Richard Doll, Lecturer in Epidemiology and Member of the Statistical Research Unit, London School of Hygiene and Tropical Medicine, was Chairman of the Study Group which met in Geneva from the 16th to the 20th November. The Group noted the geographical variations in mortality from cancer of the lung, reviewed knowledge about aetiological factors (such as cigarette smoking, air pollution, specified industrial causes, etc.), and made a series of recommendations¹⁷ on studies which needed to be made of the geographical variations, of special factors in relation to degree of exposure to specific agents, of multiple factors and of genetic and epidemiological aspects of the problem.

WHO Centre for the Classification of Diseases

In addition to the routine business of dealing with enquiries from countries on questions arising in the use of the International Classification of Diseases during 1959, the WHO Centre under the direction of Dr. Logan at the General Register Office continued work on the preparation of an instruction manual

intended for the training and guidance of coders using the seventh revision of the International List. Further studies were made, in collaboration with the Dominion Bureau of Statistics in Canada and the National Office of Vital Statistics in the United States, of a comparison of the coding of 6,000 causes of death selected from deaths in Canada, England and Wales and the United States during 1958. The Centre also began a study of the coding of samples of death certificates from certain European countries. The first batch was a pilot sample of 50 Danish certificates, classified according to the Latin version of the International List, which were coded by the Centre and compared with the Danish assignments.

The Centre made a preliminary investigation into methods of simplifying the Index to the International Classification of Diseases. A report was made on the points at which a special diagnostic list prepared by the College of General Practitioners differed from the International Classification. Further study was given to changes needed to make the Classification of Causes of Stillbirth suitable for classifying causes of perinatal mortality and work on the application of the International Classification to morbidity statistics included a study of coding of certificates of incapacity for work at the Statistical Branch of the Ministry of Pensions and National Insurance at Newcastle.

Western European Union

Working Party on Cancer Statistics

London was the meeting place of the Working Party on Cancer Statistics which met for the first time, with Dr. Logan in the Chair, on the 27th and 28th January. The Working Party had been set up as the result of a decision 18, taken by the Public Health Committee of Western European Union at a meeting in Amsterdam in October 1958, that it should consist of an expert to be designated by each of the governments of Western European Union to examine available statistics relating to (a) cancer of the lung and bronchus and (b) cancer of the gastro-intestinal tract (including oesophagus) with a view to determining whether a statistical comparison of cancer at these sites could be made between various countries. The Public Health Committee further decided that, if a statistical comparison was thought possible, the Working Party should nominate one member to ascertain whether any factors could be shown to have an association with cancer at these sites and to name the factors.

The Working Party, provided in advance with a concise statement of the kind of statistical information available in each country, reached the conclusion that in no single country did statistics of morbidity from cancer cover the whole population, nor were they sufficiently uniform or reliable to give any reasonable prospect of international comparison. This did not mean, however, that every effort should not be made to extend their coverage. It was decided in the meantime to limit discussion to statistics of mortality from cancer and to form a view on the extent to which differences in the national figures affected international comparisons. It was the view of the Working Party that, provided due allowance was made for local variations and technique, simple comparisons could be based on existing mortality figures.

The Working Party selected the following sites as the most profitable to investigate. In order of priority they were: lung and bronchus (ICD Nos.

162 and 163), stomach (151), oesophagus (150), large intestine (153) and rectum (154). It was also decided that the comparison should not be limited to any specific age range and that differences in classification and in the methods of coding death certificates would not materially affect the comparisons. Some thought would have to be given to the reliability of diagnosis as stated on death certificates and local estimates should be made of possible errors in certification. The Working Party also stressed the need to get regional or urban and rural figures. It was decided that the study should be made and Dr. Neurdenburg of the Netherlands was requested to undertake it.

Public Health Committee

Dr. Logan was present at the eighth meeting of the Public Health Committee, held in Edinburgh from the 7th to the 10th April, to present the report of the Working Party on Cancer Statistics.²⁰

Organization for European Economic Co-operation

Manpower Committee: Group of Demographic Experts

When the Manpower Committee met at the end of April it decided that the time had come to review the estimates contained in 'Demographic Trends in Western Europe 1951-1971'21, to assess how far they had been useful and to consider whether the previous survey should be resumed or its scope enlarged.

Mr. Benjamin was one of the Group of demographic experts which met in Paris on the 18th and 19th June. The view of the Group, reported²² to the Manpower Committee, was that a comparison of the estimates made during the survey of 1953-54 with actual trends showed that in most cases the projections had been too low in estimating both the reduction in mortality and the increase in fertility. It was also noted that certain countries were unable to take account of migration when making their projections. The outcome of discussion on this part of their terms of reference was that the estimates would need to be reviewed at fairly short intervals. The Group also agreed that changes which had taken place since the survey was made pointed to the desirability of a fresh assessment. Previous experience did, however, justify the preparation of fresh estimates on the basis of only one assumption in regard to mortality and fertility and not on three different assumptions as previously. This assumption should be 'the most reasonable' taking account of the factors appropriate to each country.

The Group prepared a draft questionnaire sent round later to member countries after the report of the Group, to which it was annexed, had been considered by the Manpower Committee in July when the proposals of the demographic experts were approved.

International Union for the Scientific Study of Population

International Population Conference

Vienna was the place chosen for an International Population Conference arranged by the Union. It took place from the 28th August to the 4th September and was attended by Mr. Benjamin. Among the 77 papers contri-

buted to the discussions was one by him on 'Recent Fertility Trends in England and Wales' and another on 'National Morbidity Statistics in England and Wales' presented by the General Register Office in the name of Dr. Logan.

It was unfortunate that no arrangements had been made to select the range of subjects to be discussed at the Conference because, in their absence, the papers contributed covered more ground than could be competently dealt with in the time available. Nevertheless, the Conference, a meeting of demographers, was able to take stock of recent and current developments in the techniques used for population studies and, in particular, made some headway on such difficult matters as statistics of internal migration and urban-rural classification.²³

International Union Against Cancer

Committee on Clinical Stage Classification

The Committee met in Paris from the 16th to the 18th July. The meeting, in which Dr. Logan took part, formulated proposals, based on the results of a special enquiry, for improving the classification of tumours of the breast, of the bladder, of the larynx and of other sites according to clinical assessments of their stages of development.

Preparation for the Eighth Revision of the International List

Representatives of the World Health Organization, from both headquarters and the American Region, attended a meeting in Washington on 2nd and 3rd June at which Dr. Logan and Mr. Fraser Harris (Canada) met Dr. Moriyama of the National Office of Vital Statistics in the United States to take stock of preparations that were being made in Canada, the United States and the United Kingdom for the eighth revision of the International Classification of Diseases which is due to be completed under the auspices of the World Health Organization in 1965. The meeting revealed that proposals for revising certain sections of the Classification were well advanced and arrangements were made for fresh drafts prepared in one country to be tried out in others. Due emphasis was placed on the fact that the next revision, unlike the one made in 1955, would be a full-scale exercise which could only be accomplished if the World Health Organization realized the importance of providing adequate staff and resources.

International Co-operation in Statistics of Cancer

Representatives from Denmark, Finland, France and Norway were among those who, with Dr. Logan, met at the National Cancer Institute, Bethesda, Maryland on the 22nd and 23rd January at the invitation of their colleagues in the United States who wished to get an outside view on 'The Cancer End Results Evaluation Program' sponsored by the National Cancer Institute of the United States Public Health Service as the outcome of a decision taken at the Third US National Cancer Conference. As the result of discussion, which indicated that the meeting thought that the 'Program' was on the right lines, information was pooled on cancer registration methods and on the results obtained from follow-up procedure in several countries. Arrangements were made for a report to be drafted for presentation to the 1962 International Cancer Congress (to be held in the USSR).

Further work resulting from the meeting took the late Dr. Alan McKenzie of the General Register Office to Bethesda for some eight weeks from mid-April.

A further review of progress was made in Copenhagen on the 5th and 6th October at a meeting in which both Dr. Logan and Dr. McKenzie took part.

Visitors from Overseas

Fifty-four students and others from overseas were among those who visited the General Register Office during 1959. The countries from which they came were Australia, Borneo, Burma, Chile, Czechoslovakia, Denmark, Egypt, France, Federal Republic of Germany, Ghana, India, Iran, Iraq, Israel, Jamaica, Japan, Malaya, Malta, Mauritius, Netherlands, Nigeria, Norway, Pakistan, Poland, South Africa, Sweden, St. Helena, Thailand, Trinidad, the United States of America, Yugoslavia and Zanzibar. They were nearly all officials sent by other governments and most of them came by virtue of Fellowships awarded by the United Nations, the World Health Organization or the Colombo Plan.

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THE REGISTRATION SERVICE

Searches and certificates

Tables T1 and T2 show the growth in the registers of births, marriages and deaths since 1866 and the extent to which the registers and indexes at the General Register Office have been used in a series of years since then.

The number of searches paid for by members of the public in 1959, at 229 thousand, was higher than in 1958 while the number of searches undertaken for Government Departments, mainly to verify ages of applicants for retirement pensions, declined to 188 thousand. This continues the trend which was interrupted in 1956 by a temporary increase which was explained in the Commentary* for that year. The number of certificates issued from the registers in 1959 increased to over 300 thousand.

Re-registration of births of legitimated persons

If the parents of a child marry after the child's birth the marriage will in certain circumstances legitimate the child. In these cases the birth should be re-registered to show the child as a legitimate child of its parents. Under the Legitimacy Act, 1926, a child was not legitimated by the marriage of its parents if either of them was married to a third person when the child was born. The Legitimacy Act, 1959, which came into operation on 29th October 1959, removed this prohibition, and children to whom it had previously applied became legitimated persons on that date. The first effects of the new provisions are reflected in Table T3, in the figures for the December Quarter 1959. Although the new Act was in operation for only the last two months of 1959 the number of re-registrations during the last quarter of the year rose to 939: this represents an increase of 73 per cent over the corresponding quarter of 1958. The total number of births re-registered during 1959 was 2,905, compared with 2,636 in 1958.

Adopted children

The number of entries in the Adopted Children Register are shown in Table T4 for each year since 1951 and for groups of years from 1927 to 1955 (the original provision for the register was made in 1926). From a peak of more than 21,000 entries in 1946, there was a drop to less than 13,000 in 1950. The figure of 14,109 in 1959 was the highest since 1949.

The Adoption Act, 1958, which came into operation on 1st April 1959, introduced provision for the High Court and the County Courts to make provisional adoption orders. These orders confer authority on a person not domiciled in Great Britain to take a child out of this country for adoption and 71 such orders were made in 1959.

Table T5 analyses adoptions by the sex, age and legitimacy of the child and shows the number of children who were adopted by one or both of their natural parents. Information about other degrees of relationship between adopter and child is no longer available from the simplified form of adoption order introduced under the Act of 1958. The table shows that in 34 per cent of all adoptions one or both of the adoptive parents were the natural parents of the child.

^{*}The Registrar General's Statistical Review for the year 1956, Part III, Commentary, p.269. H.M.S.O. London, price 16s. 6d. net.

THE NATIONAL HEALTH SERVICE CENTRAL REGISTER

During the year 1959 (covering a 53 week period) the National Health Service Central Register (which is maintained by the General Register Office on an agency basis) received notifications of 1,536,922 persons who were reported as having registered with doctors for the first time. It was found from the register that 226,924 of these were already on doctor's lists.

The Central Register also notified Executive Councils of the names of 991,094 persons for removal from doctors' lists by reason of death (546,861), enlistment (118,336), embarkation (321,711), or becoming long-term patients in mental hospitals (4,186). It was not in fact possible for Executive Councils to remove from doctors' lists all the persons notified to them in this way, because, in many cases, there were insufficient identifying particulars. In addition, 1,434,128 persons were notified as having changed their doctor on removal from the area of one Executive Council to another.

Towards the end of the year an alphabetical index of adult persons in the National Health Service was completed at the Central Register and brought into use. The purpose of the index is to enable the Register to trace the National Health Service numbers of patients who, on acceptance by doctors, fail to produce their medical cards or quote their numbers correctly. In the course of the compilation of the index it was possible to identify cases in which a patient was registered with more than one doctor (usually in different areas) and cases in which the name of a patient on a doctor's list should have been removed earlier because of death, enlistment or embarkation. Approximately 54,000 cases in the first category and 32,000 in the second (almost wholly cases of death) were notified to Executive Councils in 1959, eliminating a measure of long-standing inflation of numbers on doctors' lists. These figures are not included in those in the previous paragraph.

PARLIAMENTARY AND LOCAL GOVERNMENT ELECTORS

Electoral Registers

As required by the Electoral Registers Act, 1949, and the Representation of the People Act, 1949, a local register of electors based on a canvass is prepared in the autumn of each year. This distinguishes between those who are:

- (a) parliamentary and local government electors by virtue of residence on the qualifying date;
- (b) local government electors with a non-resident qualification on the qualifying date by virtue of occupancy (as owner or tenant) of any rateable land or premises of not less than £10 rateable value per occupier.

There is also a service register for any member of the Armed Forces and other persons employed in the service of the Crown in a post outside the United Kingdom and for their wives if with them.

The qualifying date for inclusion on the register is 10th October in England and Wales and the registers must be used for elections held in the twelve months beginning on the 16th February of the following year.

A person not of full age on the qualifying date but who will be so on the following 15th June is to be included on the register though there is no entitlement to vote before the following 2nd October. Such persons are shown separately in Table CXXXIV below as "Young Electors". There are 258,688 "Young Electors" in the 1959 register of electors. By definition this group should include all persons (except aliens and others who are not entitled to be registered) who were aged between 20 years 4 months and 21 years on the qualifying date. It can be estimated that the total number of persons in this age-group in England and Wales is about 400,000. After allowing for those not entitled to be registered, the discrepancy between actual and potential registrations is substantial. It would appear that the main reason is probably that many householders, in completing the forms from which the register is compiled, either fail to appreciate that persons in this age-group should be included, or fail to indicate that they are not yet 21.

Total electorate

The particulars recorded in Tables U and V for 1959 have been taken from statements sent to the Registrar General by the Electoral Registration Officers and Clerks to local authorities. They relate to the register which came into force on 16th February 1959.

Table U refers to parliamentary and Table V to local government electors and elections. Table CXXXIV shows a few summary figures for 1959 and earlier years.

Table CXXXIV. Parliamentary and local government electors, 1954 to 1959, England and Wales

		Parliamenta	ry Register			
Register (qualifying date in brackets)	Total at	Services Register	"Young I (not inc in cols. 2	cluded	Local Government Register	
in orackets)	qualifying date	(included in col. 2)	Total	Total Services (included in col. 4)		
1	2	3	4	5	6	
1954 (20th Nov. 1953)	30,525,190	276,156	212,229	15,001	30,640,141	
1955 (10th Oct. 1954)	30,590,931	285,376	242,907	19,578	30,707,251	
1956 (10th Oct. 1955)	30,679,509	289,615	248,420	18,259	30,795,617	
1957 (10th Oct. 1956)	30,737,369	295,084	243,793	22,593	30,855,871	
1958 (10th Oct. 1957)	30,795,834	283,383	250,464	26,707	30,914,568	
1959 (10th Oct. 1958)	30,850,124	274,628	258,688	24,129	30,969,488	

The number of parliamentary electors in England and Wales consistently corresponds almost exactly with the estimated *total* population aged 21 and over, excluding aliens resident here and those categories of persons not qualified to vote. This indicates that the discrepancies in different constituencies, due mostly to time lags in adding names to the registers or removing them, largely cancel out when aggregated for England and Wales as a whole. The percentages which the total parliamentary electorate represented of the estimated *total* population in the years 1955 to 1959 were:

1955	1956	1957	1958	1959
68 · 6	68 · 4	68 · 2	68 · 1	67 · 8

The proportion of the total population included in the local government register was 68.06 per cent in 1959. This is a slightly higher proportion than that of the parliamentary register, on account of the inclusion of those local government electors who have non-resident qualifications. There are just over 119 thousand of these in England and Wales, the number increasing only by a few hundred each year.

Size of parliamentary constituencies

Table CXXXV shows for 1956 and 1959 the distribution of parliamentary constituencies, classified into county and borough constituencies, by their number of parliamentary electors.

Table CXXXV. Total number of electors in parliamentary constituencies, distinguishing county and borough constituencies, 1956 and 1959,

England and Wales

				Number of constituencies					
Total numb	er of e fying d		at	19	56	19	59		
				County	Borough	County	Borough		
Under 30,000 30,000 35,000 40,000 45,000 50,000 60,000 65,000				1 1 5 21 43 56 61 38 17	6 13 29 72 76 48 29	1 1 6 19 36 54 50 42	1 8 14 39 77 66 45 23		
70,000 75,000 80,000 and over	•••	• • •	• • •	5	22 3 1	15 4 1	22 3 1		
Total			248	299	248	299			

While the average number of electors in a parliamentary constituency has risen slightly from 56,087 in 1956 to 56,399 in 1959, it is interesting to note the increasingly closer approximation to each other of the average number of voters in county and borough constituencies:

Average number of electors in	1956	1958	1959
All parliamentary constituencies	56,087	56,300	56,399
County constituencies	54,448	55,545	56,060
Borough constituencies	57,446	56,926	56,680

The average number of electors in borough constituencies in 1956 was 2,998 in excess of that in county constituencies. By 1959 this difference had dropped to only 620, between a quarter and a fifth of the earlier figure. The distribution of constituencies by size shows a marked upward shift in the county constituencies; but in the borough constituencies there is no such pronounced trend.

Local government elections

The next elections for county councils will be held in 1961. An analysis of the 1958 elections appeared in the 1958 Commentary (pages 208-210), to which there is nothing to add. Opportunity was taken in the 1957 Commentary (pages 220-222) to discuss local council elections in urban areas and the survey was completed by a comparable treatment of rural areas in the 1958 Commentary (pages 210-213).

Table CXXXVI below again continues to show the percentage of the electorate voting since 1951 in the various types of local government elections, but calls for no particular comment at so short an interval from the detailed analyses.

Table CXXXVI. Local government elections. Percentage of electorate voting in contested elections, 1951 to 1959, England and Wales

District	1951	1952	1953	1954	1955	1956	1957	1958	1959
Metropolitan boroughs,	44.4	43·2 49·9	 45·2	42.8	36·5 43·8	 37·6	40.0	33·3 40·3	41.0
municipal boroughs and urban districts Rural districts	45·9 45·2	50·9 52·0	46·8 47·3	45·7 47·1	45·0 48·2	39·4 41·3	44·1 45·2	42·9 46·2	42·1 42·1
Total	45 · 1	48 · 0	46.2	44.3	41 · 6	38 · 7	42.2	38 · 6	41.6

Central Index of Service Voters

During 1959 the Central Index of Service Voters (which is maintained by the General Register Office on an agency basis) received from Electoral Registration Officers 67,936 declarations by persons qualified to be included in the electoral registers as service voters. The categories of persons qualified as service voters are:

- (i) any person who is a member of H.M. Forces;
- (ii) any person employed in the service of the Crown in a post outside the United Kingdom;
- (iii) any woman who is the wife of a service voter and is residing outside the United Kingdom to be with her husband.

A further 13,106 declarations were received in respect of persons under the age of 21 years. The Central Index notified Electoral Registration Officers of 28,169 persons who had made declarations before reaching the age of 21 years but who, during 1959, attained that age. Altogether 96,105 new service voters were added to the electoral registers.

In the same period Electoral Registration Officers were notified of 89,648 names of persons whose declarations ceased to be in force, and 8,131 declarations by persons under full age were cancelled because they ceased to have a service qualification before attaining full age.

APPENDIX A

FERTILITY BY YEAR OF MARRIAGE, 1920-1959 Women married once only, England and Wales 1. Mean family size

Mean family size

Table 1 (a).—All marriage ages under 45

Calendar	of marriage	1920–24	1925 1926 1927 1928 1928	1930 1931 1932 1933 1934	1935 1936 1937 1938 1939	1940 1941 1942 1943	1945 1946 1947 1948	1950 1951 1952 1953 1954	1955 1956 1957 1958 1958
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ract		8 2.21	6325	66 1. 17 2. 17 2. 15 1.	25475	2739	11111	1 1 1 1 1	1 1 1 1 1
n (e)	16	2.18	2.03 1.99 1.93 1.96	1.96 1.97 1.96 1.95	1.95 1.94 1.97 1.95	1.93			
Marriage duration (exact years)	15	2.15	2.00 1.95 1.91 1.90 1.92	26.526.	93256	1.87 1.90 1.99 1.99 2.03	11111	11111	11111
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Calendar	of marriage	1920-24	1925 1926 1927 1928 1929	1930 1931 1933 1934	1935 1936 1938 1938	1940 1941 1942 1944	1945 1946 1947 1948	1950 1952 1953 1954	1955 1956 1957 1958 1959
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arria	13	2.88	2.72 2.72 2.66 2.68 2.71	2.22.57	22.74 2.74 2.52 2.56	22222 23624 439	2.50	11111	11111
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Mean family size

Calendar	of marriage	1920-24	1925 1926 1927 1928 1929	1930 1931 1932 1933 1934	1935 1936 1937 1938	1940 1941 1942 1943	1945 1946 1947 1948	1950 1951 1952 1953	1955 1956 1957 1958 1959
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Calendar	of marriage	1920-24	1925 1926 1927 1927 1929	1930 1931 1932 1933 1934	1935 1936 1937 1938	1940 1941 1942 1943	1945 1946 1947 1948	1950 1951 1952 1953 1954	1955 1956 1958 1959
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	25	1.00	1.70 1.67 1.64 1.65	88488	11111	11111	11111	1111	
	24	1.881	.70 .63 .63 .65 .65	6651165	89	11111	11111	11111	
	23	1.88.1	65.	69.65	.68	11111	11111	11111	11111
	22	1.88.1	65.65	699	.68 1 .71	11111	11111		11111
	21	1 · 88 · 1	.63 .63 .63 .65	1.69 1.65 1.65 1.65 1.65	.68 1.67 1.71 1.74		11111	11111	11111
	20	1 .88	.70 .63 .63 .63	64488	.67 .71 .74				11111
	61	.88	699	65 449	. 67 . 74 . 74 . 74 . 1	69.1111			11111
SS	18	-87 1	6935	84244	177.	69.	11111		
t year	17	-86 1	89.59.59	669949	99027	.68 1	11111		11111
Marriage duration (exact years)	16	.85	84686	6529	. 73 . 73 . 73	67117.111.80	11111	11111	11111
ation	15	-84	538865	66.59.50	24.055.00	. 78 . 78 . 82		11111	
e dura	14	-81	56611	58888	62 62 70 70 68 11 68	.65 .64 .68 .77 .80	48.1111	11111	
ırriag	13	1.78	533	557	. 59 . 67 . 67 . 65 . 65	1.62 1.62 1.75 1.75 1.78	1.83	11111	
Ma	12	1.75	505.50	5005	550	.59 .63 .72 .72	1.80	11111	
	=	1.70	1.54 1.46 1.46 1.46	1.44	55 55 57 57	5551	7.75	11111	11111
	10	1.65	8444 84044 0404	33.33	444432	5000	202.000		11111
	6	.58 1	345.1	3862.39	36.45.	559	6631	1.67	11111
		-49.1	32 1 25 1 27 1 27 1 27 1 27 1 27 1 27 1 2	224	3005	.33 .39 .49 .11	.54 .57 .57 .49	1.58	11111
	1	.39 1		.171.	27272	224	44.44.45. 11.14.45.	.461	11111
	9	1.28 1	1.000	.10 .07 .05 .08 .08	400000	.004	335	33 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11111
	10	1.15	98.	95 11 96 11 196 11	906.		2002.	711.1.1	11111
	4	00.	graph (rest)			.73 .93 .00	9002		1.02
	60	-82	.73 .72 .70 .70 .88	8899 499 659	.65 .62 .61 .51	.55 .58 .72 .72	.85 .84 .85 .87 .76	97. 47. 97.	83
	7	.62	.56 .50 .52 .50	.50 .47 .48 .48	744 744 604 04	37 44 55 55	.59 .62 .54 .55 .55	. 57 48 54 54 54	538
	-	•33	862223	252,525	242220	266	33	288888	337
	0	.03	900000	000000	22222	200000	200000	200000	88888
Calendar	of	1920–24	1925 1927 1928 1929	1930 1932 1933 1934	1935 1936 1937 1938	1940 1941 1942 1943	1945 1946 1947 1948	1950 1951 1952 1953 1954	1955 1956 1957 1958 1959

APPENDIX A—continued

Mean family size

Table 1 (e).—Marriage age 30-34

Calendar	marriage	1920–24	1925 1926 1927 1928 1929	1930 1932 1933 1933	1935 1936 1937 1938 1939	1940 1941 1942 1943 1944	1945 1946 1947 1948 1949	1950 1951 1952 1953 1954	1955 1956 1957 1958 1959
	30	4.	1.134	11111	11111	11111	11111	11111	11111
	29	4	1.19	.17	41111	11111	11111	11111	11111
	28	4	1.134	1.171	11111	11111	11111		
	27	4-	1.34 1.19 1.27 1.15 1.16 1.16	1.17.1					
	25	1 - 44 1	1.34	12411	11111	11111		11111	
	25	4	1.134	1.24			11111	11111	
	24 2	1 · 44 1	1.34	1.24511	61.		11111		
	23 2	1.44 1.	1.34 1.127 11.15 11.16 11.	1241.	1.19	11111		11111	
		.44 1.	34 1. 27 1. 15 1. 16 1.	2341.	.181.		1 1 1 1 1	1 1 1 1 1	
	1 22	-44 1	34 1 · 34 · 19 1 · 19 · 27 1 · 27 · 15 1 · 15 · 16 1 · 16		many arms from				
	21			433.25	3001.19				
	20	11.44	4611.27	123457	23.1.25		11111		
	19	1.44	46.77.27	13255	1.25	1.20	11111	11111	11111
years)	18	1 - 44	46.7.7.9	1.23	1.18	1.20	11111		11111
ct ye	17	1.44	1.27	1.17	1.19	1.22	11111	11111	
(еха	16	1 -44 1	46-12-13-13-13-13-13-13-13-13-13-13-13-13-13-	<u> </u>	1.19 1.25 1.25 1.25	1.22	11111	11111	11111
Marriage duration (exact	15	1.43	1.134	1.222	1.24	1.22	11111		
e dur	41	1.42	1.26	32222	244	222.1.23	1.37		11111
arriag	13	.42	1.18	1.2001	1.23	1.2211.3211.36	.36	11111	11111
Z	12	.41	51.32	42000	2238	36	1.36	11111	
	=	1 - 39 1	30	1.13	1.13	1.20	351	11111	11111
	10	.36.1	28 - 17 - 10 - 10 - 10	.10 .08 .13	00008	3279.55	22233		
	6	-33	000000000000000000000000000000000000000	86223.8	000000000000000000000000000000000000000	24113	2292	6	
	00	.28	20 14 14 04 11 04	900000	0.0000	1.26	22222	1.35	
	7	.21	99.09.13	96999	90000	00511	2001	1.28	
	9	1.13	93 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	.96.93 .98.93 .88.	24262	.92 .95 .96 .13	113	1.13	
		03	88. 85. 85. 84. 84.	288888 7888 808 808 808 808 808 808 808 8	81 81 80 80	888 844 955 035 11	003 100 100 100 100 100 100 100 100 100	200000	
	4	.91.13	. 87 . 78 . 78 . 75 . 75		.72	-	-	60 60 60 60 60 60 60 60 60 60 60 60 60 6	16.
	~	.75	2,92,92	65.	557	538	447.72	55222	75.79
	7	.57	50.53	84444 866 84444 8464	444 462 464 464 464 464 464 464 464 464	38,39,24,39	505.53	53.57	55.
	-	.33	28323	2560323	23,52,53	20 20 20 20 20 20 20 20 20 20 20 20 20 2	277	30,53	33.33.33.33.33.33.33.33.33.33.33.33.33.
	0	.05	90000	00000	445000	400 000 000 000 000 000	88888	88888	800000
Calendar	of narriage	1920-24	1926 1927 1928 1929	1932 1933 1933 1933 1934	1935 1937 1938 1939	1940 1947 1947 1944 1944	1945 1946 1947 1948	1950 1951 1953 1953	1955 1956 1957 1958

Calendar	marriage	1920-24	1925 1926 1927 1928 1929	1930 1931 1932 1933 1934	1935 1936 1937 1939	1940 1941 1942 1943 1944	1945 1946 1947 1948	1950 1951 1952 1953 1954	1955 1956 1957 1958 1959
	15	.41	04. 22. 42. 42. 42.	3225	.27 .20 .18 .21 .16	44445E	11111		11111
	14	.41	4.6.4.5.5 6.6.5.5.4.5.4	225 225 36 36	.27 .20 .18 .21 .21	44445	.25	1111	11111
	13	.40	94. 522. 44.	2222	.27 .20 .18 .21	<u> </u>	255	11111	11111
	12	.40	98422	.25	.27	24425	25.55		11111
	=	.39	98422	327.55	.27 .20 .18 .18	22222	इंद्रुंद्ध ।	11111	11111
ars)	10	.39	.39 .36 .21 .24 .24 .24	.322 .325 .365 .365	.27 .20 .18 .21	24425	22422	11111	11111
act ye	6	.39	339	.25 .25 .27 .36	.27 .18 .21 .21	24444	22222	.23	1 1 1 1
n (exa	00	.38	.39 .21 .23	222.	.27 .20 .18 .21	<u> </u>	22422	:23	11111
ıratio	7	.37	339	22.22.25	.27 .20 .18 .21 .21	<u> </u>	22222	:22	11111
ige dı	9	.37	2203338	327.23	.27 .19 .18 .21	224426	333233	22222	11111
Marriage duration (exact years)	5	.36	22333	223	.27 .19 .17 .21	22222	22222	22222	11111
	4	.34	337	322228 322228	.27 .18 .17 .21	22222	22222	22222	27 1 1
	60	.32	.35 .38 .19 .21	44222	.26 .18 .20 .14	22222	22222	122222	232
	7	.29	37 .28	22222	118	05. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	220021	0.000	.18
		.23	13441.	7.22228	2; 13 10 10 10	94525	22244	51.551.	117
	0	.12	222.52.70.00	.07 .12 .16 .17	1,000,000				=====
	16	.85	.81 .68 .67	86969	45.65.65.65.65.65.65.65.65.65.65.65.65.65	.61 .63 .67		11111	11111
	15	.85	.80 .67 .67 .67	869.99	54.	.61 .63 .70	11111	11111	11111
	14	.85	98.73	<u>&&&&&</u>	45.59.09	19.63.67.	.73	1111	
	13	-85	66.569	<u>&</u> & & & & & & & & & & & & & & & & & &	.67 .67 .60	.60	.73		11111
	12	-84	852899	888999	45. 129. 129.	.61 .63 .63 .70	. 7. 17.	11111	1111
ars)	=	.84	89999	88999	.54 .66 .67 .67	1999	5450	11111	11111
arriage duration (exact years)	10	-84	627.899.99	79999	.54 .60 .67	.63 .63 .70	5.50	11111	11111
n (ex	6	.83	87.79	65.59	4,00,00	19: 63: 63: 67:	.73	-74 	11111
ıratio	00	100.	15843	82883	59.58	0.82.95	727.	.73	11111
ige di	7	62.	7.88.88	28683	55.03.05.05.05.05.05.05.05.05.05.05.05.05.05.	86.69	.71	.72 .65 .65	
Marria	9	.76	5,82,8	44626	. 55. 60. 52. 52.	586.	5688	.70 .63 .62	11111
	5	.72	86.0000	65.00	.57 .52 .56 .56	55.	99999	63.59	11111
	4	99.	.56 .56 .56 .56 .56	\$5. 50. 50. 50.	45.65.54	522.55	.58 .57 .57 .55	.55 .57 .57 .58	65
	6	.57	500 S	844.05.44 88.05.44 88.05.44	964448	£4.4.4.	52054.	.525 .47 .500 .500	
	2	.46	.45 .41 .41 .40	388	388			.41 .37 .40	
	444	.28	332	223	1222	.18	22222	42222	226
	0	.07	11.08	127	070000000000000000000000000000000000000	88666	88888	99999	88888
Calendar	of	1920-24	1925 1926 1927 1928	1930 1932 1933 1933 1933	1935 1936 1938 1938	1940 1942 1943 1943	1945 1946 1947 1948	1950 1951 1952 1953	1955 1956 1957 1958 1959

APPENDIX A—continued 2. Fertility rates

Fertility rates	Calendar	of marriage	1920-24	1925 1926 1927 1928 1929	1930 1931 1932 1933	1935 1936 1937 1938 1939	1940 1941 1943 1944	1945 1947 1948 1949	1950 1951 1952 1953	1955 1956 1957 1958
tility		30	000-	<u> </u>	11111	11111		1 1111	11111	1111
Fer		29	000	88888	11111	11111	11111	11111	11111	1111
		28	000	82888	<u>8</u>	11111			11111	1111
		27	000	\$\$\$\$\$\$	999			11111	11111	1111
		26	.001	<u>\$</u>	999 11		11111	11111	. 11111	1111
		25	.002	88888	99999	11111	11111	11111	11111	1111
		24	.004	86668	000000000000000000000000000000000000000		11111	11111	11111	1111
		23	-005	98888		905	11111		11111	1111
		22	-008		\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	0004			11111	1111
		21	.010	.0112 .009 .009 .007	.000 .000 .000 .000 .000	.005	11111		11111	1111
		20	.014	.016 .017 .015 .011	90000	.0007 .0008 .0008			11111	1111
		19	.018	.019 .019 .018 .018	012	0000	11111	11111	11111	1111
	ears)	18	.022	.024 .025 .025 .025	010 010 016 017 013	0013	014	11111	11111	1111
3	Marriage duration (completed years)	17	.026	.030 .030 .027	.025 .025 .020 .018	017 018 015 015 015	.020		11111	1111
		16	.030	.030 .031 .037 .037	.036 .036 .031 .028	.020 .020 .020 .020	022	11111	11111	1111
		15	.037	.037 .037 .036 .038	.041 .049 .045 .038	.030 .025 .026 .026	.027 .028 .030 .030	11111	11111	1111
2		14	.044	.040 .037 .039 .045	.050 .051 .057 .052 .042	.038 .032 .032 .030	.033 .033 .035 .035	11111	11111	1111
i	iage d	13	.050	44000	.053 .056 .061 .066	050 042 039 039 038	.038 .041 .041	942	11111	1111
	Marri	12	.057	.053 .049 .046	.055 .073 .066 .072	.067 .055 .053 .053	.050 .050 .046 .046 .048	0440	11111	1111
		=	.065	.062 .058 .061 .059	.058 .063 .074 .079	.084 .068 .068 .064	.053 .059 .059 .055	.057 .058 .059		1111
		10	.076	.073 .072 .066 .070	.062 .075 .083 .083	.089 .096 .094 .079	.065 .065 .067 .066 .063	.064 .072 .073	11111	1111
45		6	.087	080	.073 .068 .074 .083	.095 .100 .116 .094	.086 .084 .083 .079	.078 .076 .085 .085	11111	1111
under		00	.101	080000	.087 .074 .079 .096	1113	.101 .099 .088 .088	.090 .091 .097 .097	ĒIIII	1111
m s		7	.118	.105 .104 .103	.102 .101 .097 .082 .089	122	124	.109 .108 .111 .111	131	1111
ages		9	.128	.117 .111 .107 .115	1116	.103 .118 .136 .139	.177 .166 .147 .138 .138	.125 .128 .128 .134	152	1111
riage		5	.146	.140 .133 .126 .126 .136	.134 .128 .130	.108 .1139 .139 .154	.164 .194 .186 .165	.150 .153 .157 .157	.174 .169 .177 .180	1111
marri		4	164	.150 .150 .150 .141	641. 641. 641. 641. 44. 44.	123	.161 .172 .207 .203 .183	.176 .168 .171 .178	.191 .186 .195 .204	1111
_		3	.189	178	.167 .165 .165 .163	.168 .161 .137 .150	.176 .178 .190 .222	.204 .194 .197 .201	.213 .203 .207 .217	.226
-All		7	.222	.199 .193 .194 .194	.193 .184 .187 .183	.191 .188 .180 .169	.185 .192 .192 .204	.258 .227 .227 .221 .221	.224 .214 .214 .226 .230	.237
(a).		-	.297	.274 .265 .256 .276 .276	250 250 250 250 250 250 250 250 250 250	.240 .237 .239 .236	.215 .236 .241 .259 .288	.322 .330 .313 .298	.276 .266 .267 .266	270
7		0	.367	.351 .338 .342 .319	.332 .329 .326 .315	.306 .294 .279 .291	.189 .186 .241 .246	.283 .301 .293	.303 .267 .273 .274 .275	.286 .296 .298 .320
Table	Calendar	marriage	1920-24	1925 1926 1927 1928 1929	1930 1931 1932 1933 1934	1935 1936 1937 1938 1939	1940 1941 1942 1943 1944	1945 1946 1947 1948	1950 1951 1952 1953 1954	1955 1956 1957 1958

Calendar	marriage	1920-24	1925 1926 1927 1928 1929	1930 1931 1932 1934	1935 1936 1937 1938 1939	1940 1941 1942 1943 1944	1945 1946 1947 1948 1949	1950 1951 1952 1953 1953	1955 1956 1957 1957
	30	000	<u>\$6666</u> 1	11111	11111	11111	11111	11111	1111
	29	.001	800000	[]]]	11111	11111	11111	11111	1111
	28	.001	.005 .002 .001 .001	9 1111		11111	11111	11111	1111
	27	.003	88888	905		11111	11111	11111	1111
	26	800.	999999	\$\$\$11		11111		11111	1111
	25	010	100000	.000 .0006 .0007		11111	11111	11111	1111
	24	.022	013	0100	11111		11111		1111
	23	.031	.026 .022 .018 .017	017	014	11111	11111	11111	1111
	22	.046 .037	.041 .026 .028 .028	.024 .023 .022 .021 .021	.019	11111	11111	11111	1111
	21	.046	.055 .047 .036 .036	.031 .028 .030 .027	026				1111
	20	.050	.064 .063 .050 .037	.035 .038 .038 .035	034		11111		1111
	19	.061	064 075 066 050	0444	.038 .038 .038 .038	11111	11111		1111
ears)	00	290.	.075 .072 .075 .085	.056 .054 .052 .046 .045	0446 0446 043 043	039	11111		1111
ted y	17	-077	.073 .076 .101 .091	.075 .069 .075 .059	.052 .052 .052 .047	045	11111	11111	1111
omple	16	.079	.036 .096 .096	.093 .081 .073	.058 .063 .055 .060	052	11111		1111
on (co	15	-092	.068 .093 .091	.079 .111 .107 .091	.070 .065 .062 .062	.057 .057 .055	11111	11111	1111
Marriage duration (completed years)	14	.100	980	.109 .095 .128 .117	.085 .077 .069 .069	.066 .063 .063 .060	11111	11111	
iage	13	.104	0935	.107 .125 .139 .139	.105 .093 .078 .076	.072 .066 .070 .067 .068	0.073		1111
Магг	12	.115	100 110 104 099 099	.106 .1114 .1131 .131	1131 1105 1005 1001 1001	.086 .086 .074 .079	0883		1111
	=======================================	.122	1111	099 110 127 127 142	.151 .126 .126 .106	.097 .097 .085 .085	.001		1111
	10	.139	.123 .113 .112 .113	116 118 125 136	.145 .154 .124	.110 .107 .102 .099	11100	11111	1111
	6	-141	126 138 149 140 130	.130 .130 .133 .149	.159 .179 .152 .152	.124 .1127 .115 .115	.110		1111
	00	.156	155 146 127 136 144	844. 844. 822. 122. 144.	153	146 1140 1127 1118	.128 .131 .135 .139	.156	1111
	7	.179	162	152 152 137 129 148	.153 .163 .184 .216	.196 .157 .147 .134	.149 .153 .148 .151	176	1111
	9	.177	152 156 154 164	.168 .169 .154	.160 .166 .158 .184	.228 .225 .187 .174 .168	.167 .173 .169 .173	194	1111
	5	-202	.193 .182 .169 .171	.191 .172 .173	.159 .179 .173 .173	.208 .251 .237 .205 .193	.191 .192 .193 .205	.221 .214 .219 .222	1111
	4	.219	.198 .205 .186 .186	0611 0611 0611 0611	.186 .173 .182 .195	.208 .251 .246 .225	.217 .209 .209 .221 .229	238 244 251 251 250	1111
	2	.236	.230 .209 .213 .231	2025	.201 .216 .187 .194	.198 .221 .254 .254	.253 .238 .247 .247 .258	.265 .268 .268 .268	.265
	2	.280	273 235 240 240 248	2322262	241 223 223 233 233	.219 .229 .242 .285	.305 .285 .274 .268	.281 .277 .272 .278	295
	-	-352	.307 .315 .295 .342	.332 .292 .298 .298	.298 .306 .298 .312	.272 .272 .252 .274 .302	.358 .386 .376 .363	316.318	.326
	0	.535	.545 .556 .580 .564 .614	. 596 . 609 . 591 . 595	.581 .562 .580 .580	.308 .289 .318 .346	.382 .429 .440 .440	444 437 432	.418 .424 .420 .433
Calendar	of marriage	1920-24	1925 1926 1927 1928 1929	1930 1932 1933 1933	1935 1936 1937 1938	1940 1941 1942 1943	1945 1946 1947 1948	1950 1951 1952 1953 1954	1955 1956 1957 1958

APPENDIX A—continued

Fertility rates

Table 2 (c).—Marriage age 20-24

Calendar	marriage	1920–24	1925 1926 1927 1928 1929	1930 1931 1932 1933	1935 1936 1937 1938 1939	1940 1941 1942 1943 1944	1945 1946 1947 1948 1949	1950 1951 1952 1953 1954	1955 1956 1957 1958
	30	.00C	1	11111	TITH		11111	11111	1111
	29	000	000	11111	11111	41111	11111	11111	1111
	28	000	000	1114	11111	11111	11111	11111	1111
	27	000	888	111	11111	11111	11111	11111	1111
	26	.000	80000	11	11111	11111	11111	11111	1111
	25	.001	966666	<u>\$</u>		11111	11111	11111	1111
	24	.003	999999	90000	11111	11111	11111	11111	1111
	23	900.	.005 .005 .002 .003	9022222	.000		1111	11111	1111
	22	600.	.009 .007 .007	000 000 000 000 000 000 000	999	11111	1-1111	11111	1111
	21	.012	.015 .015 .011 .011	.007 .007 .007 .007	9009	11111	11111	11111	1111
	20	.018	.019 .022 .018 .016 .016	0000	99999	11111		11111	1111
	19	.024	.027 .028 .022 .020	0018 0017 0014 0014	0.000 4.0000 4.0000	11111	11111	11111	1111
ears)	18	.029	033	.023 .025 .021 .018	0117	010	11111	11111	1111
sted y	17	.034	.038 .045 .038 .038	033	.023 .023 .023 .019	022	11111	11111	1111
omple	16	.041	045 045 045 038 038	.0446 .038 .037 .032	030	026	11111	11111	1111
on (c	15	.049	.046 .049 .050 .050	.055 .062 .054 .047	.033 .033 .031 .031	031	11111	11111	1111
Marriage duration (completed years)	14	-057	.054 .056 .046 .047	063 068 070 065 065 065	.050 .045 .040 .037	033 039 040 040	11111	11111	1111
iage o	13	.064	055 057 051 054 056	.068 .073 .084 .069	.062 .055 .054 .044	045 046 046 046	045	11111	1111
Marr	12	-072	.071 .068 .061 .057	.081 .083 .083 .083	.084 .070 .065 .066	.055 .057 .055 .051	051	11111	1111
	=	080	.077 .073 .072 .072	.071 .075 .087 .095	.105 .092 .082 .077	050	0662	11111	1111
	10	.092	.087 .087 .087 .080	.072 .078 .089 .099	.109 .109 .093 .088	.079 .071 .074 .071	.069 .078 .078	11111	1111
	6	.105	095 095 093 099	083 080 085 093 114	134	098 095 088 088 085	.084 .083 .086 .091 .091	11111	1111
	00	.120	100	104 098 084 093 116	128 128 137 153 141	.119 .1110 .096 .095	.096 .099 .100 .105	11128	1111
	7	.135	.121 .112 .123 .123	.112 .115 .112 .096 .103	130 132 142 175	.160 .135 .133 .123	1118	1140	1111
	9	.146	.130 .123 .123 .123	.128 .129 .131 .132	130 149 153 160	181 158 149 139	.128 .135 .136 .135	155	1111
	· v	.165	.164 ·130 .151 ·130 .143 ·123 .142 ·123	.150 .150 .145 .145	.115 .125 .149 .163	.174 .210 .199 .176	.159 .163 .162 .166	.185 .177 .186 .189	1111
	4	.182	.160 .172 .169 .159	.166 .160 .165 .156	.146 .139 .139 .164	.175 .184 .223 .217	.184 .180 .185 .185	.200 .200 .200 .209	1111
	6	.206	.198 .190 .192 .184	182 179 182 176 184	186 174 154 167	189 191 197 236 234	213 206 199 203 203	207 207 222 222 225	229
	7	.242	.221 .215 .211 .208	.207 .198 .199 .203	204 203 192 179 179	.192 .202 .202 .202	.269 .246 .235 .227 .215	224 213 212 225 225 228	237
	-	.319 .242	.280 .280 .301	.288 .272 .272 .265	.253 .253 .254 .254	.222 .248 .258 .280 .303	.336 .348 .326 .306	.282 .267 .269 .264	·264 ·270 ·272
	0	.409	.401 .382 .389 .355	.369 .362 .343 .343	.336 .322 .301 .298 .228	.189 .179 .192 .244	.297 .297 .311 .297	.249 .249 .253 .249	.260 .267 .268 .275
Calendar	of marriage	1920-24	1925 1926 1927 1928	1930 1931 1932 1933	1935 1936 1937 1938	1940 1941 1942 1943	1945 1946 1947 1948	1950 1951 1952 1953	1955 1956 1957 1958

	Calendar year of	marriage	1920-24	1925 1926 1927 1928	1930 193 1 193 2 1933 1934	1935 1936 1937 1939	1940 1942 1943 1944	1945 1946 1947 1948	1950 1951 1952 1953 1954	1955 1956 1957 1958
-		30	1	11111	11111	11111	11111	11111	1111	
ı	-	29	1	11111	11111	11111	11111	11111	11111	
Н		28			11111		11111	11111	11111	1111
П		27	1	11111	11111	11111	11111	11111	11111	1111
		26	1	11111		11111	11111	11111	11111	1111
		25		11111	11111	11111	11111	11111	11111	1111
		24	000.	000000	000	11111		11111	11111	1111
	-	23	000	88888	000	1111		11111	11111	1111
		22	.001	99999	0000			11111	11111	1111
1		21	.001	999999	99999	11	11111		11111	1111
1		20	.001	600 500 500 600 600 600 600 600 600 600	99999	99991	11111		11111	1111
		19	-003	900	902222	900000000000000000000000000000000000000	11111	11111	11111	1111
	years)	18	.005	9005	000.000	000000000000000000000000000000000000000	.003	11111	11111	1111
	eted	17	.007	.007 .006 .008 .012	010.	.000 .000 .000 .000 .000	000.	11111		1111
1	ompl	16	.010	0008	0100000	.008 .000 .000 .000	000011	11111		1111
1	Marriage duration (completed years)	15	910.	012	.022 .024 .019 .019	.012 .012 .012 .013	0112		11111	1111
۱	durat	14	.023	020 020 021 021 022	026 025 034 028 028	.022 .018 .017 .017	0117	11111	11111	1111
	riage	13	.030	027	.035 .033 .037 .037	.031 .027 .027 .025	.022 .022 .022 .023 .023	026	11111	1111
	Mar	12	.036	.032 .029 .031 .030	.040 .046 .054 .043	.038 .038 .038 .038	.034 .032 .031 .033	035		1111
1		yard part	.047	.040 .041 .040 .040	.042 .047 .059 .062 .063	.051 .057 .054 .049	.038 .040 .041 .041	045		1111
		10	.056	050 053 051 054 055	.046 .049 .057 .065 .078	.070 .079 .081 .068	.054 .045 .049 .049	.053 .055 .057		1111
		6	070	062 062 065 065	.057 .052 .061 .073	.089 .081 .105 .097	.074 .066 .065 .065	9669	11111	1111
- Constitution		00	.083	071 071 077 074 069	.078 .074 .059 .061	109 096 108 125	.095 .088 .081 .069	083	560	1111
		7	.102	.086 .084 .086 .084	038	.033 .120 .123 .123	.131 .110 .104 .097		113	
		9	.112	.114 .100 .105 .093	104	.085 .110 .139 .139	.161 .148 .130		136	1111
0		2	.130	1118	.126 .122 .120 .120	102	175		.158 .154 .162 .165	
		4	.149	132	.136 .137 .137		188	.167 .158 .171 .173	.178 .176 .179 .193	
Sarriary (n)		en en	.175	.156 .156 .151	.156 .156 .153	153	178	.193 .185 .192 .192	.203 .192 .193 .204	.222
		7	.205	173	.182 .174 .173	175	.185 .180 .177 .214	.245 .223 .219 .217	.216 .204 .220 .220 .228	224
		-	.285	.261 .247 .236 .251 .238	.231 .229 .217 .231 .231	2223	.195 .219 .236 .249	.319 .317 .298 .283		269
۱ ا		0	.302	263 254 238 233 233	245 233 227 227 227	.226 .218 .199 .216	.157	.213 .262 .272 .255 .255	.225 .225 .225 .225	.251 .258 .265 .265
Table	Calendar	of	1920-24	1925 1926 1927 1928 1929	1930 1931 1932 1933 1934	1935 1936 1937 1938	1940 1941 1942 1943	1945 1946 1947 1948	1950 1951 1952 1953 1954	1955 1956 1957 1958

Fertility rates

Calendar	of marriage	1920–24	1925 1926 1927 1928 1929	1930 1931 1932 1933	1935 1936 1937 1938	1940 1941 1942 1943	1945 1946 1948 1948	1950 1951 1953 1953	1955 1956 1957 1958
	30		11111	11111	11111	11111	11111	11111	1111
	29	1	11111	11111	11111	11111	11111	11111	1111
	28	1	11111	11111	11111	11111	11111	11111	1111
	27		11111	11111	11111	11111	11111	11111	1111
	26	1	11111	11111	11111	11111	1 1 1		1111
	25	-	11111		11111	11111			1111
	24					11111			
	23			11111				11111	1111
	22	000	88888	0000	111	11111	11111	11111	1111
	21	0000	88888	9999		11111	11111	11111	1111
	20	000-	88888	\$ \$\$\$\$\$	1	11111	11111		1111
	19	.001	56666	000000	000.	11111	11111	11111	1111
ears)	18	.001	99999	99999	000	1111	11111	11111	1111
eted 3	17	-002	99999	999999	8666	111	11111	11111	1111
Marriage duration (completed years)	16	.002	900000	000 000 000 000 000 000 000 000 000 00	10000	11		11111	1111
ion (c	15	.004	99999	900 900 900 900 900 900 900 900 900 900	9999	000000		11111	1111
durat	14	-005	00000	90000	0005	000000	11111		1111
riage	13	.007	000000000000000000000000000000000000000	.005 .007 .011 .012	.010 .008 .005 .005	99999	90	11111	1111
Mari	12	.012	000 000 000 000 000 000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	.008 .009 .009 .000	999	11111	1111
	11	.021	.019 .015 .010 .010	.015 .029 .023	.0022 .019 .017	0012	012	11111	1111
	10	.025	.025 .020 .028 .019	0224	.028 .029 .025 .025	010 010 010 010 010	010		1111
	6	.036	032	.028 .026 .027 .035	.036 .042 .042 .037	.029 .028 .029 .028	027 027 030 030 029		1111
	00	.046	.050 .044 .038 .027 .045	.029 .039 .035	.052 .050 .055 .051	.047 .042 .043 .037	039 040 058 058 044	050	1111
	7	.068	.063 .057 .055 .054 .047	044 0049 0056 0049 0048	.067 .073 .061 .085	.071 .063 .063 .057	.057 .058 .056 .058	170.	1111
	9	.082	.063 .063 .052 .059	.062 .072 .057 .051	.060 .077 .083 .093	.094 .090 .033 .080	.071 .077 .076 .076	087	1111
	5	.103	.083 .072 .100 .082 .081	.076 .073 .091 .091	.076 .074 .030 .115	1113	.101 .104 .105 .105	117	1111
	4	.121	.116 .109 .034 .034	.098 7.09 1.09 1.09 1.09	.092 .088 .088 .103	.135 .148 .143	122	.137	1111
	3	.152	121.	1130	.117	.133 .130 .160 .172	.157 .152 .153 .153	.163 .155 .157	.162
	2	.182	.156 .156 .151 .135	153	151	.156 .159 .194 .212	.205 .190 .187 .183	.190 174 178 186 191	.198
	-	.244	238 2207 2221 2222 2222 208	. 186 . 186 . 196 . 194	.206 .189 .200 .207 .184	.189 .215 .202 .248	2777	.259 .245 .243 .229	237
	0	.276	.268 .228 .241 .211	.207 .211 .239 .223 .223	.211 .196 .207 .202 .171	.150 .154 .152 .171	.188 .194 .191 .175	.230 .207 .212 .212 .218	.234 .250 .243 .247
Calendar	marriage	1920-24	1925 1926 1927 1928 1929	1930 1931 1932 1933 1934	1935 1936 1937 1938 1939	1940 1941 1942 1943	1945 1946 1947 1948	1950 1951 1952 1953 1953	1955 1956 1957 1958

Fertility rates

Calendar	marriage	1920-24	1925 1926 1927 1928 1929	1930 1931 1932 1933 1934	1935 1936 1937 1938	1940 1941 1942 1943	1945 1946 1947 1948	1950 1951 1952 1953 1954	1955 1956 1957 1958
	4	.001	88888	99999	99999	000		11111	
	13	-002	000000	99999	88888	000	1111	11111	1111
	12	.003	98888	86666	99999	0000	111	11111	1111
8	11	-005	88888	\$\$\$\$\$\$	999999	90000	11	11111	1111
l year	10	.003	999999 999999	88888	99999	99999	1		1111
pleted	6	.003	000000000000000000000000000000000000000	89888	99999	99999	000.		1111
(com	∞	900-	9000000	86888	88888	88888	000		1111
ation	7	.011	000000000000000000000000000000000000000	88888	888888	<u>88888</u>	986	1.11	1111
e dur	9	9000	.007 .000 .000 .000 .000	999999	<u>86688</u>	969999	00000	11	1111
Marriage duration (completed years)	5	.010	999999 744209	0.0000000000000000000000000000000000000	<u>8</u> 88899	900 800 800 800 800 800 800 800 800 800	888888	1 90000	1 1 1
Ms	4	.015	.000 .000 .000 .000 .000	98999	900 900 900 900 900 900 900 900 900 900	.005 .005 .007 .007	999999 7099999	888888 844488	1111
	3	.023	.017 .013 .005 .010	000000000000000000000000000000000000000	000000000000000000000000000000000000000	010	014 012 000 000 000 000	000000000000000000000000000000000000000	013
	7	.029	.0028 .0028 .0028 .009	0003	.009 0114 0009 0009	.023 .023 .023 .029	.030 .028 .029 .023	020 020 020 020 020	021
		.058	.056 .034 .037 .037	.038 .007 .006 .038	.010 .029 .026 .031	.045 .055 .050	050	.034 .035 .035 .043	039
	0	001 -117	. 109 . 109 . 107 . 106 . 106	.108 .087 .109 .097	.078 .032 .077 .053	.026 .033 .041 .056	040 040 038 038 036	045200000000000000000000000000000000000	.040 .059 .041
	15	-	99999	99999	<u>\$</u> 86688	1	11111	11111	1111
	14	.007 .003 .002 .000	999332	88888	99999	000.	11111	11111	1111
	13	-002	000000000000000000000000000000000000000	999999	99999	000	1111		1111
	12	-002	9000 2000 2000 2000 2000 2000 2000 2000	999999	999999	888	111		1111
(Su)	11	.003	.002 .003 .003	999999	566666	8888	11		1111
od yea	10		.000 .000 .000 .000	99999	<u>8</u>	999999	000001	11111	1111
nplete	6	.007	9009	99999	99999	999999	900 900 900 900 900 900 900 900 900 900		1111
ı (cor	00	-015	.0007 .010 .010 .003	088698	0010	999999	99999	81111	1111
Marriage duration (completed years)	7	.029 .021	.023 .015 .012 .008 .008	0013	016	0015200	001000000000000000000000000000000000000	012	1111
ige du	9	1 -025	6 .031 9 .019 4 .013 7 .027	0014 0018 0010 0010 0010	7 .032 4 .024 3 .039 .035	6 .029 3 .024 8 .022 4 .019	020	0.019	1111
farria	2	140	.036 .030 .029 .034	.039 .032 .032	.027 .027 .033 .023	.036 .038 .038 .038	.033 .035 .034 .037	030000000000000000000000000000000000000	
2	4	.062	.031 .038 .038 .038	.045 .045 .041	.029 .041 .030 .056	0.056	.056 .053 .049 .050	.050 .048 .048 .052	1111
	m	3 -092	3 .066 3 .066 9 .064 1 .047	50058	2 .057 5 .067 4 .044 7 .058 5 .063	0.076 0.076 0.071 0.089	077 077 077	.075 .072 .078 .078	.083
	7	901-9	1.108 2.083 4.088 8.094	6 .092 5 .082 1 .085 3 .086	7 .072 7 .085 4 .094 8 .076	7 .095 7 .095 7 .089 5 .102 1 .120	6 · 122 3 · 113 4 · 114 0 · 105	. 101 . 095 . 109 . 109	.120
	-	3 .176	6 .141 8 .124 2 .131 7 .118	0 .156 7 .125 0 .131 8 .140 0 .143	6 .107 6 .137 4 .134 1 .124 3 .118	3 .124 7 .137 9 .137 2 .145	0 .176 6 .183 5 .174 1 .169 1 .160	2 .172 0 .155 2 .151 5 .164 5 .161	3 .167
	0	.213	.216 .199 .208 .182	.160 .187 .160 .178	.136 .166 .134 .151	1103	.136	.152 .130 .132 .145	.160 .168 .167
Calendar	ot marriage	1920-24	1925 1926 1927 1928 1929	1930 1932 1933 1933	1935 1936 1937 1938 1939	1940 1941 1942 1943	1945 1946 1947 1948	1950 1951 1952 1953 1954	1955 1956 1957 1958

APPENDIX B

FERTILITY RATES BY BIRTH ORDER, ENGLAND AND WALES, 1959 Live births per woman married once only, irrespective of parity Figures are rounded and may not add to totals

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	Calendar year of marriage		1959 1958 1957 1956 1956	1954 1953 1952 1951 1950	1949 1948 1947 1946 1945	1944 1943 1942 1941 1940	1939 1938 1937 1936 1936	1934 1933		
T				4 or more	999999	.003 .007 .008 .010	0000000	.000 .000 .000 .001	0000	
ı				3	000000000000000000000000000000000000000	0013	999999	999999	9000	
ı		6	Î	2	000000000000000000000000000000000000000	.038 .035 .026 .026	.019 .015 .005 .005	90000 40000 40000	0000	
		25-29		_	.002 .017 .080 .109	.089 .065 .036 .036	000 000 000 000 000 000 000 000 000 00	800000	888	
ı			0	.072 .314 .162 .103	.047 .033 .022 .017	000000000000000000000000000000000000000	<u>\$</u> \$\$\$\$\$	<u> </u>		
				Total	.075 .333 .251 .256 .205	.187 .150 .100 .084	.054 .051 .030 .023	.000 .000 .000 .000 .000 .000	0000	
	1			4 or more	000000	.003 .005 .008 .010	.014 .015 .015 .013	.013 .010 .008 .006		000.
				6	000000000000000000000000000000000000000	.012 .014 .016 .015	.010 .010 .000	900.000.000.000.000.000.000.000.000.000	900000	000.
Ш		4		2	.000 .000 .020 .034	.040 .038 .034 .030	.025 .020 .017 .014	.000 000 000 000 000 000 000	999999	0000
		20-24		-	.001 .016 .083 .114	.096 .077 .059 .045	.025 .018 .010 .007	.005 .003 .002 .001	000000	000-
			dren	0	.086 .311 .159 .104	.053 .037 .026 .018 .013	.000 .000 .000 .000	99999	000000	1 1
	Age at marriage		ous chile	Total	.087 .329 .248 .240	.204 .174 .122 .122	.086 .072 .061 .052	.036 .030 .026 .020	0000000	.000
	ge at m		f previ	4 or more	1 1890	.005 .020 .026 .033	.036 .035 .033 .033	.027 .025 .020 .020	.023 .020 .018 .013	000-
	Ā	Number of previous children	22	r/s	000000000000000000000000000000000000000	.027 .031 .033 .029	.026 .022 .021 .016 .016	.011 .009 .009 .007	.005 .005 .002 .001	.001 .001
				Nun	Nun	2	.000 .009 .043	.069 .062 .048 .042	.031 .028 .023 .018	.012 .010 .009 .007
		Under		-	.001 .036 .155 .157	.075 .055 .040 .031	.023 .018 .010 .008	000 000 000 000 000 000 000 000 000 0	.000 .000 .000 .000	0000
				0	.193 .382 .144 .077	.036 .022 .017 .017			899991	000
				Total	.194 .419 .308 .279	.236 .203 .180 .158	.122 .095 .079 .079	.060 .052 .046 .041	.036 .029 .025 .017	.007
	Ī			4 or more	000000	.003 .006 .010 .012	.016 .015 .015 .013	.010 .010 .000 .000	900 900 900 900 900 900 900 900	.000
		10		6	0000	.014 .016 .017 .016	.000 .000 .000 .000	.005 .005 .005 .004	.000 .000 .000 .000 .000	0000
		nder 45		2	.000 .001 .025 .038	.044 .038 .032 .029	.023 .015 .015 .009	.000 .000 .000 .003	000000000000000000000000000000000000000	0000
		All ages un		-	.001 .021 .097 .119	.052 .052 .039	.021 .015 .008 .008	.000 .000 .000 .000 .000	000000	0000
		All		0	.110 .324 .152 .094	.046 .032 .022 .015	.000 .000 .000 .000 .000	999999	000000	000
				Total	.111 .346 .257 .240	.197 .165 .139 .115	.081 .066 .045 .038	.027 .027 .017 .013	900000	.000 .001
		Calendar	of		1959 1958 1957 1956 1956	1954 1953 1952 1951 1950	1949 1943 1946 1946	1944 1943 1942 1941	1939 1938 1937 1936	1934

1959—continued

	Calendar	of		1959 1958 1957 1956 1955	1954 1953 1952 1951 1950	1949 1948 1947 1946 1945	1944	
			4 or more	18888	111			
			3	11811	100			
	10-44		2	11888	999			
	4(-	199999	0000			
			0	.019 .020 .020 .012	.005			
			Total	.019 .027 .018 .018	.000 .000			
		u	4 or more	999999	88888	9991		
		Number of previous children	vious children	3	900000		911	
Age at marriage	6			2	.000 .000 .010 .010		911	
e at m	35-39		-	.001 .010 .038 .047	.005 .003 .003	.000		
Ag			0	.052 .198 .098 .044		000		
			Total	.055 .211 .142 .105	.005 .005 .005	.003		
			4 or more	0000000	000000000000000000000000000000000000000	0003	.000	
			6	000000	\$\$\$\$\$\$ \$\$\$\$\$ \$\$	90000	0000	
	4		2	.000 .000 .000 .018	.030 .020 .014 .011	.000 .000 .000 .000	000	
	30-34		-	.003 .017 .056 .093	.058 .037 .028 .018	000000000000000000000000000000000000000	000.	
				0	.073 .288 .139 .077	.031 .022 .013 .008		100
			Total	.077 .307 .218 .192	.130 .096 .075 .053	.027 .010 .006 .006	.002	
	Calendar	year	marriage	1959 1958 1957 1956 1955	1954 1952 1951 1950	1944 1944 1947 1946	1944	

APPENDIX C

AGE FERTILITY RATES IN REGIONS, CONURBATIONS AND URBAN/RURAL AGGREGATES, 1959

Table 1. All live births per 1,000 women

Area			Age of n	nother at	maternity		
Alca	15-44	15-	20-	25-	30-	35-	40-44
ENGLAND AND WALES	83.0	31.6	160.3	163 · 8	94.7	44.1	13 · 2
Regions and conurbations:							
Northern Tyneside Conurbation Remainder of Northern	91·7 90·8 92·0	28·7 27·3 29·2	167·9 164·5 169·1	178·3 177·6 178·5	105·5 102·9 106·6	53·9 54·7 53·6	16·3 15·9 16·5
East and West Ridings West Yorkshire Conurbation Remainder of East and West Ridings	82·7 82·2 83·1	31·3 32·2 30·8	167·2 166·7 167·5	163 · 4 166 · 3 161 · 5	91·4 92·2 90·8	42·0 39·1 44·0	12·4 11·0 13·4
North Western South East Lancashire Conurbation Merseyside Conurbation Remainder of North Western	85·8 84·1 94·7 82·4	32·7 35·9 30·8 31·1	167·0 172·1 173·9 158·2	167·9 161·4 182·0 166·0	98·8 94·3 113·1 95·2	47·8 44·5 56·3 46·4	13·8 12·4 18·4 12·9
North Midland	86.4	32.7	170.3	167.5	96.2	45.8	13 · 3
Midland West Midlands Conurbation Remainder of Midland	83·1 81·4 85·0	31·4 31·4 31·4	154·9 149·8 160·3	157·3 150·4 164·5	95·5 94·2 96·9	47·1 47·0 47·2	15·4 16·0 14·8
Eastern	88 · 1	33.0	167 · 1	180 · 4	102 · 4	43 · 7	13 · 2
London and South Eastern Greater London Conurbation	74·6 73·4	30·7 31·8	142·6 139·8	150·4 144·4	86·8 84·8	37·9 37·0	11·4 11·3
Remainder of London and South Eastern	78.6	27.5	151.9	171.2	93-4	40.6	11.6
Southern	90 · 8	34.4	181 · 1	185 · 1	100 · 4	44.9	13 · 8
South Western	83 · 2	30.4	165 · 4	168.3	93.9	43 · 1	12 · 4
Wales (including Monmouthshire) Wales I (South East) Wales II (remainder)	82·1 82·2 81·9	32·8 34·2 28·9	159·5 163·4 149·0	152·5 149·5 161·2	92·5 89·3 101·3	48·7 47·8 50·9	14·1 13·6 15·4
Urban/Rural aggregates: Conurbations	79.5	32.0	152 · 4	154.4	91.3	41.9	12.8
Areas outside conurbations: Urban areas with populations of 100,000 and over Urban areas with populations of	83.0	34.0	165 · 9	156-2	90.8	44.6	12.8
50,000 and under 100,000 Urban areas with populations under	82.2	33.5	161.7	157 · 4	90.7	44.3	13-2
50,000 Rural districts	85·2 87·9	31·2 29·1	165·5 166·3	171·6 182·6	97·3 103·1	45·2 46·9	13·1 14·4

APPENDIX C—continued

Table 2. Legitimate live births per 1,000 married women

Amo			Age of n	nother at	maternity		
Area	15-44	15-	20-	25-	30-	35-	40-44
ENGLAND AND WALES	114.7	428 · 0	267 · 7	191.0	102 · 9	48 · 1	14.3
Regions and conurbations:				İ			
Northern	129·8 129·3 130·0	475·0 506·4 465·0	284·0 287·2 282·9	205·9 206·0 205·9	114·3 112·6 115·0	58·8 60·3 58·2	17·7 17·1 17·9
East and West Ridings West Yorkshire Conurbation Remainder of East and West Ridings	111·8 110·9 112·3	413·8 440·3 398·6	261·6 264·9 259·5	184·1 189·1 180·9	97·2 98·5 96·3	44·7 41·6 46·8	13·0 11·8 13·8
North Western South East Lancashire Conurbation Merseyside Conurbation Remainder of North Western	120·2 113·6 142·2 115·1	503·8 492·2 538·8 497·7	288·9 281·3 332·1 272·5	197·2 185·0 222·7 195·0	108·1 101·2 126·8 104·6	52·5 47·9 63·3 51·4	15·2 13·3 20·8 14·3
North Midland	115 · 1	360 · 7	260 · 6	187 - 4	101 · 4	48 · 4	14.1
Midland	113·2 110·2 116·2	433·7 441·6 426·2	252·6 247·0 258·3	180·2 171·0 189·7	102·3 100·5 104·3	50·6 50·4 50·8	16·5 17·2 15·8
Eastern	121.0	426 · 6	273 - 3	211.1	111.3	47.5	14.3
London and South Eastern Greater London Conurbation	103·3 100·6	409·0 415·6	247·5 243·2	180·2 172·6	95·7 93·4	41·9 40·8	12·5 12·3
Remainder of London and South Eastern	111.9	390.0	261.7	205 · 8	103 · 3	45.5	13 · 1
Southern	126.0	396 · 2	295 · 8	215.9	109.6	49 · 2	15.0
South Western	116.7	409 · 4	280 · 3	196.9	102.8	47.6	13.7
Wales (including Monmouthshire) Wales I (South East) Wales II (remainder)	116·8 115·1 121·7	469·1 463·8 487·5	276·5 273·2 287·0	180·0 173·4 201·0	101·8 97·7 114·0	53·7 52·2 57·9	15·5 14·9 17·3
Urban/Rural aggregates: Conurbations	109.5	446.8	260.9	181 • 5	99•6	45.8	13.9
Areas outside conurbations: Urban areas with populations of 100,000 and over	112.7	434 · 4	265.4	176.9	96.8	47.9	13.7
50,000 and under 100,000	113.3	453.6	263 · 4	182 · 1	97.9	48 · 3	14.3
Urban areas with populations under 50,000	118·1 123·5	415·7 394·6	270·2 282·1	199·1 215·0	105·7 113·0	49·4 51·5	14·4 15·7

APPENDIX C-continued

Table 3. Illegitimate live births per 1,000 single, widowed and divorced women

Area			Age of a	nother at	maternity		
AIVa	15-44	15	20-	25-	30-	35-	40-44
ENGLAND AND WALES	13 · 48	5.83	19.69	31.26	30.82	16.94	6.10
Regions and conurbations:			}				
Northern	11·51 11·46 11·53	4·57 3·88 4·82	15·53 14·85 15·80	30·37 34·04 28·88	30·45 25·38 32·44	17·91 17·62 18·04	7·17 8·86 6·47
East and West Ridings	13·74 15·73 12·37	4·83 5·13 4·64	20·39 23·76 18·01	37·72 42·47 33·98	37·46 40·34 35·20	20·60 22·12 19·29	7·99 5·97 9·77
North Western South East Lancashire Conurbation Merseyside Conurbation Remainder of North Western	13·10 16·76 11·84 10·64	5·62 6·53 5·75 4·71	18·99 25·08 16·38 15·42	30·08 39·84 24·52 25·07	29·80 40·00 25·40 23·37	17·16 21·69 15·95 13·70	5·86 7·37 6·18 4·21
North Midland	14.92	5 · 87	21.23	38 - 20	44-11	23.73	7.73
Midland	13·54 14·98 12·05	5·58 6·13 5·02	18·66 20·42 16·71	33·28 38·43 27·95	34·21 37·74 30·50	19·80 20·29 19·31	7·24 7·47 6·99
Eastern	12.55	6.24	18 · 74	24.73	28.73	15.83	5.25
London and South Eastern Greater London Conurbation Remainder of London and South	15·33 16·57	7·02 7·60	23·14 24·73	32·67 34·80	29·69 30·75	15·12 15·77	5·54 6·14
Eastern	11.39	5.36	17.49	24.80	25.93	13.00	3.66
Southern	14.40	6.75	21.76	33 · 60	30.50	16.79	6.38
South Western	11.39	5.46	16.02	27.77	25.58	13.58	4.66
ales (including Monmouthshire) Wales I (South East) Wales II (remainder)	9·30 8·95 10·12	4·37 4·05 5·22	13 · 65 13 · 20 14 · 64	19·36 19·26 19·57	20·20 20·00 20·65	13·39 14·32 11·50	4·77 4·72 4·86
Urban/Rural aggregates: Conurbations	15.60	6.61	22.78	35 - 47	32.81	17.69	6.56
Areas outside conurbations: Urban areas with populations of 100,000 and over Urban areas with populations of 50,000 and under 100,000	15·72 13·30	6·24 5·51	23·24 19·57	40.53	39.56	20.84	7·33 6·78
Urban areas with populations under 50,000 Rural districts	11·08 10·37	4·99 5·17	16·48 14·12	25·20 22·47	26·49 24·58	15·57 13·99	4·58 5·66

APPENDIX D

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APPENDIX E

BOOKS AND ARTICLES BY OFFICERS OF THE GENERAL REGISTER OFFICE PUBLISHED DURING 1959

	OII	ICL	I Obliginia Bounts 1707
BENJAMIN, B.		••	Actuarial aspects of human lifespans. Ciba Foundation symposium on the lifespan of animals. pp. 2-15.
BENJAMIN, B.		• •	Elements of vital statistics. pp. 352. George Allen and Unwin, Ltd.
BENJAMIN, B.			Recent fertility trends in England and Wales. Proceedings of the International Population Conference, Vienna 1959. pp. 249-256.
BROOKE, Eileen	M.		A longitudinal study of patients first admitted to

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BROOKE, Eileen M. .. Mental health statistics. What have they taught us. *The Medical Record*, vol. 5, no. 6. pp. 185-190.

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HEASMAN, M. A. .. Vital statistics. 1959 Medical Annual

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LOGAN, W. P. D. . . . The epidemiology of the middle age group in the community. CENTRAL COUNCIL FOR HEALTH EDUCATION. Seminar on the promotion of health in middle age. pp. 2-5.

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